# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

			FORM	10-K		
	ANNUAL REPORT PL	JRSUANT TO SECT	TION 13 OR 15(d) OF THE SECURITIES	EXCHANGE ACT OF	F 1934	
			For the fiscal year ende	d December 31, 20	19	
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			Commission File N		·	
			Commission rile iv	umber: 0-13301		
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			ORTHOFIX M	EDICAL INC.		
			(Exact name of registrant a	s specified in its charte	er)	
		Delaware			98-1340767	
		State or other jurisdi			(I.R.S. Employer	
	ır	ncorporation or organ	•		Identification No.)	
		3451 Plano Park Lewisville, Tex	••		75056	
	(Addr	ess of principal execu			(Zip Code)	
			(214) 93; (Registrant's telephone num Securities registered pursuant	ber, including area co	•	
	Common Stock	k, \$0.10 par value	OFI	x	Nasdaq Global Select Market	
	(Title	of Class)	(Trading S	ymbol)	(Name of Exchange on Which Registered)	
			Securities registered pursuant to	Section 12(g) of the A	ct: None	
Indicate	by check mark if the regis	strant is a well-known	seasoned issuer, as defined in Rule 405 of t	he Securities Act. Yes	s ⊠ No □	
	-		to file reports pursuant to Section 13 or Section			_
	•	• , ,	iled all reports required to be filed by Section file such reports), and (2) has been subject t		curities Exchange Act of 1934 during the preceding 12 months (or lents for the past 90 days. Yes $lacksquare$ No $\Box$	tor
		•			mitted pursuant to Rule 405 of Regulation S-T (§232.405 of this ch	apter)
-	- ·	•	riod that the registrant was required to sub			
			e accelerated filer, an accelerated filer, a nor er," "smaller reporting company," and "emer		maller reporting company, or emerging growth company. See the " in Rule 12b-2 of the Exchange Act.	
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Non-ac	ccelerated filer		Smaller reporting company			
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Indicate	by check mark whether tl	he registrant is a shel	company (as defined in Rule 12b-2 of the A	ct). Yes □ No 🗵		
2019, as	reported by the Nasdaq (	Global Select Market,	ock held by non-affiliates, based upon the clowas approximately \$995.8 million.  stock were issued and outstanding.	osing price of the comn	mon stock on the last business day of the fiscal quarter ended June	30,
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	ections of the registrant's ated by reference in Part			nnection with the Orth	hofix Medical Inc. 2020 Annual General Meeting of Shareholders a	re

# Orthofix Medical Inc.

# Form 10-K for the Year Ended December 31, 2019 Table of Contents

		Page
PART I		
Item 1.	<u>Business</u>	4
Item 1A.	Risk Factors	20
Item 1B.	<u>Unresolved Staff Comments</u>	30
Item 2.	<u>Properties</u>	31
Item 3.	<u>Legal Proceedings</u>	31
Item 4.	Mine Safety Disclosure	31
PART II		
Item 5.	Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities	32
Item 6.	Selected Financial Data	33
Item 7.	Management's Discussion and Analysis of Financial Condition and Results of Operations	35
Item 7A.	Quantitative and Qualitative Disclosures About Market Risk	48
Item 8.	<u>Financial Statements and Supplementary Data</u>	49
Item 9.	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	49
Item 9A.	Controls and Procedures	49
Item 9B.	Other Information	52
PART III		
Item 10.	<u>Directors, Executive Officers and Corporate Governance</u>	52
Item 11.	Executive Compensation	52
Item 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	52
Item 13.	Certain Relationships and Related Transactions, and Director Independence	52
Item 14.	Principal Accountant Fees and Services	52
PART IV		
Item 15.	Exhibits, Financial Statement Schedules	53
Item 16.	Form 10-K Summary	56

#### **Forward-Looking Statements**

This Annual Report contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended ("the Exchange Act"), and Section 27A of the Securities Act of 1933, as amended, relating to our business and financial outlook, which are based on our current beliefs, assumptions, expectations, estimates, forecasts and projections. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "expects," "plans," "anticipates," "believes," "estimates," "projects," "intends," "predicts," "potential," or "continue" or other comparable terminology. These forward-looking statements are not guarantees of our future performance and involve risks, uncertainties, estimates and assumptions that are difficult to predict, including the risks described in Part I, Item 1A, "Risk Factors." Therefore, our actual outcomes and results may differ materially from those expressed in these forward-looking statements. You should not place undue reliance on any of these forward-looking statements. Further, any forward-looking statement speaks only as of the date hereof, unless it is specifically otherwise stated to be made as of a different date. We undertake no obligation to further update any such statement, to reflect new information, the occurrence of future events or circumstances or otherwise.

#### **Trademarks**

Solely for convenience, our trademarks and trade names in this Annual Report are referred to without the ® and ™ symbols, but such references should not be
construed as any indicator that we will not assert, to the fullest extent under applicable law, our rights thereto.

#### Item 1. Business

In this Annual Report, the terms "we," "us," "our," "Orthofix," "the Company" and "our Company" refer to the combined operations of Orthofix Medical Inc. and its consolidated subsidiaries and affiliates, unless the context requires otherwise.

#### **Company Overview**

We are a global medical device company focused on musculoskeletal products and therapies. Our mission is to improve patients' lives by providing superior reconstruction and regenerative musculoskeletal solutions to physicians worldwide. Headquartered in Lewisville, Texas, our spine and orthopedic extremities products are distributed in more than seventy countries via our sales representatives and distributors.

We have administrative and training facilities in the United States ("U.S."), Italy, Brazil, the United Kingdom ("U.K."), France, and Germany, and manufacturing facilities in the U.S. and Italy. We directly distribute products in the U.S., Italy, the U.K., Germany, and France. In several of these and other markets, we also distribute our products through independent distributors.

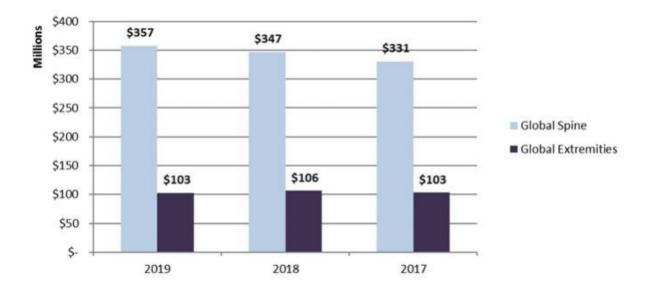
The Company originally was formed in 1987 in Curaçao and is now a corporation operating under the laws of the State of Delaware. In 2018, the Company completed a change in its jurisdiction of organization from Curaçao to the State of Delaware and changed its name to "Orthofix Medical Inc."

#### **Available Information and Orthofix Website**

Our filings with the Securities and Exchange Commission (the "SEC"), including our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, Annual Proxy Statement on Schedule 14A, any registration statements, and amendments to those reports, are available free of charge on our website as soon as reasonably practicable after they are filed with, or furnished to, the SEC. Information on our website or connected to our website is not incorporated by reference into this Annual Report. Our website is located at www.orthofix.com. Our SEC filings are also available on the SEC website at www.sec.gov.

# **Business Segments**

We manage our business by our two reporting segments, Global Spine and Global Extremities, which accounted for 78% and 22%, respectively, of our total net sales in 2019. The chart below presents net sales, which includes product sales and marketing service fees, by reporting segment for each of the years ended December 31, 2019, 2018, and 2017.



4

Financial information regarding our reportable business segments and certain geographic information is included in Part II, Item 7 of this Annual Report under the heading "Management's Discussion and Analysis of Financial Condition and Results of Operations," and Note 15 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

#### **Global Spine**

The Global Spine reporting segment is largely represented by three product categories, i) Bone Growth Therapies, ii) Spinal Implants, and iii) Biologics. Our strategies within the Global Spine reporting segment for each of these product categories, and the principal products within each of these categories, are described below in further detail:

#### **Bone Growth Therapies**

Within the Bone Growth Therapies product category of the Global Spine reporting segment, we manufacture, distribute, and provide support services for market-leading bone growth stimulation devices that enhance bone fusion. These class III medical devices are indicated as an adjunctive, noninvasive treatment to improve fusion success rates in the cervical and lumbar spine as well as a therapeutic treatment for non-spinal, appendicular fractures that have not healed (nonunions). These devices utilize Orthofix's patented pulsed electromagnetic field ("PEMF") technology, the safety and efficacy of which is supported by basic mechanism of action data in the scientific literature, as well as published data from level one randomized controlled clinical trials. The devices are compatible with the STIM onTrack mobile application, which includes a first-to-market feature that enables physicians to remotely view and assess patient adherence to treatment protocols and patient reported outcome measures. We currently have research and a clinical study underway to identify potential clinical indications for treating rotator cuff tears. We sell our Bone Growth Therapies products almost exclusively in the U.S. using distributors and direct sales representatives to sell and deliver our devices to hospitals, healthcare providers, and patients.

#### Bone Growth Therapies Strategy

Our strategy for the Bone Growth Therapies product category is to expand patient access to bone growth therapy devices that deliver noninvasive treatment for promoting healing in fractured bones and spinal fusions. Our key strategies in this product category are to:

- Promote competitive advantages of our recently launched products and STIM onTrack mobile app
- Support adoption and reimbursement with:
  - North American Spine Society's ("NASS") Coverage Policy Recommendation
  - Post-market clinical research
- · Continue to invest in expanding our sales force
- Bring to market new PEMF products addressing unmet clinical needs

# Bone Growth Therapies Products

The following table and discussion identify our principal Bone Growth Therapies products by trade name and describe their primary applications:

Product	Primary Application
CervicalStim Spinal Fusion Therapy	PEMF non-invasive cervical spinal fusion therapy used to enhance bone growth
SpinalStim Spinal Fusion Therapy	PEMF non-invasive lumbar spinal fusion therapy used to enhance bone growth
PhysioStim Bone Healing Therapy	PEMF non-invasive appendicular skeleton healing therapy used to enhance bone growth in nonunion fractures

#### Spinal Therapy

Our bone growth therapy devices used in spinal applications are designed to enhance bone growth and the success rate of certain spinal fusions by stimulating the body's own natural healing mechanism post-surgically. These non-invasive portable devices are intended to be used as part of a home treatment program prescribed by a physician.

We offer two spinal fusion therapy devices: the SpinalStim and CervicalStim devices. Our stimulation products use a PEMF technology designed to enhance the growth of bone tissue following surgery and are placed externally over the site to be healed. Research data shows that our PEMF signal induces mineralization and results in a process that stimulates new regeneration at the spinal fusion site. Some spine fusion patients are at greater risk of not achieving a solid fusion of new bone around the fusion site. These patients typically have one or more risk factors such as smoking, obesity, or diabetes, or their surgery involves the revision of a failed fusion or the fusion of multiple levels of vertebrae in one procedure. For these patients, post-surgical bone growth therapy has been shown to significantly increase the probability of fusion success.

The SpinalStim device is a non-invasive spinal fusion stimulator system that has been commercially available in the U.S. since 1990. It is designed for the treatment of the lumbar region of the spine. The device uses proprietary technology and a wavelength to generate a PEMF signal. The U.S. Food and Drug Administration (the "FDA") has approved the SpinalStim system as a spinal fusion adjunct to increase the probability of fusion success and as a non-operative treatment for salvage of failed spinal fusion at least nine months post-operatively.

Our CervicalStim product remains the only FDA-approved bone growth stimulator on the market indicated for use as an adjunct to cervical spine fusion surgery in patients at high-risk for non-fusion. The FDA approved this device in 2004 and it has been commercially available in the U.S. since 2005.

In 2016, the NASS issued first-of-its-kind coverage recommendations for electrical bone growth stimulators. These evidence-based coverage policy recommendations support the use of PEMF devices as an adjunct to spinal fusion surgery in high-risk patients. The NASS coverage policy recommends coverage of the use of electrical stimulation for spinal fusion healing in all regions of the spine, including cervical and lumbar regions. The validation of PEMF electrical stimulation from this leading surgical society has and is expected to continue to further support our efforts to expand the availability and use of the therapy to the many patients who can benefit from it.

In 2017, we announced FDA and European Commission CE mark approval for our next-generation SpinalStim and CervicalStim bone growth stimulators. The CervicalStim and SpinalStim systems available in the U.S. are accompanied by a new application for mobile devices called STIM onTrack. The mobile app includes a first-to-market feature that enables physicians to remotely view patient adhence to prescribed treatment protocols and patient reported outcome measures. Designed for use with smartphones and other mobile devices, the STIM onTrack tool helps patients follow their prescription with daily treatment reminders and a device usage calendar. The app is free and available through the iTunes App Store. In addition to the app, the next-generation bone growth stimulators include patient enhancements aimed at improving fit, comfort, and ease of use.

#### Orthopedic Therapy

Our PhysioStim bone healing therapy products use PEMF technology similar to that used in our spine stimulators. The primary difference is that the PhysioStim devices are designed for use on the appendicular skeleton.

A bone's regenerative power results in most fractures healing naturally within a few months. However, in the presence of certain risk factors, some fractures do not heal or heal slowly, resulting in "nonunions." Traditionally, orthopedists have treated such nonunion conditions surgically, often by means of a bone graft with fracture fixation devices, such as bone plates, screws, or intramedullary rods. These are examples of "invasive" treatments. Our patented PhysioStim bone healing therapy products are designed to use a low level of PEMF signals to noninvasively activate the body's natural healing process. The devices are anatomically designed, allowing ease of placement, patient mobility, and the ability to cover a large treatment area.

In 2018, we announced the FDA and European Commission CE mark approval for our next-generation PhysioStim bone growth stimulator. Similar to the next-generation CervicalStim and SpinalStim systems, the PhysioStim device is also accompanied by the STIM onTrack mobile app, enabling physicians treating patients with nonunion fractures to remotely view and assess patient adhernce to prescribed treatment protocols and patient reported outcome measures. In addition to the app, the next-generation PhysioStim devices also include patient enhancements aimed at improving fit, comfort, and ease of use.

# **Future Applications**

We have sponsored research at the University of Pennsylvania, Cleveland Clinic, New York University, and University of California San Francisco, where scientists conducted animal and cellular studies to identify the mechanisms of action of our PEMF signals on bone and tendon and efficacy of healing. From these efforts, many studies have been published in peer-reviewed journals. Among other insights, the studies illustrate positive effects of PEMF on callus formation and bone strength as well as proliferation and

differentiation of cells involved in regeneration and healing. Furthermore, we believe that the research work with Cleveland Clinic and the University of Pennsylvania, allowing for characterization and visualization of the Orthofix PEMF waveform, is paving the way for signal optimization for a variety of new applications and indications. This collection of pre-clinical data, along with additional clinical data, could represent new clinical indication opportunities for our regenerative stimulation solutions.

#### **Spinal Implants**

Within the Spinal Implants product category of the Global Spine reporting segment, we design, develop and market a portfolio of motion preservation and fixation implant products used in surgical procedures of the spine. We distribute these products globally through a network of distributors and sales representatives to sell spine products to hospitals and healthcare providers.

# Spinal Implants Strategy

Our vision for the Spinal Implants product category is to become a first choice for surgeons, healthcare providers, and payers by demonstrating strength in partnership. Our key strategies in this product category are:

- Accelerate training and market acceptance in the U.S. for our M6-C artificial cervical disc
- · Continue creating differentiated products
- Provide exceptional training and education programs for sales representatives and surgeons
- · Acquire or license products, technologies and companies to further expand the Spinal Implants portfolio

# **Spinal Implants Products**

The following table and discussion identify our key Spinal Implants products by trade name and describe their primary applications:

Product	Primary Application							
M6-C Artificial Cervical Disc	A next-generation artificial disc developed to replace an intervertebral disc damaged by cervical disc degeneration; the only artificial cervical disc that mimics the anatomic structure of a natural disc by incorporating an artificial viscoelastic nucleus and fiber annulus into its design							
M6-L Artificial Lumbar Disc	A next-generation artificial disc developed to replace an intervertebral disc damaged by lumbar disc degeneration; the only artificial lumbar disc that mimics the anatomic structure of a natural disc by incorporating an artificial viscoelastic nucleus and fiber annulus into its design							
FORZA XP Expandable Spacer System	A titanium expandable spacer system for Posterior Lumbar Interbody Fusion ("PLIF") and Transforaminal Lumbar Interbody Fusion ("TLIF") procedures featuring a large graft window with the ability to pack post expansion in situ							
CETRA Anterior Cervical Plate System	An anterior cervical plate system offering a low profile plate with an intuitive locking mechanism, large graft windows, a high degree of screw angulation, and simplified instrumentation							
CONSTRUX Mini PEEK / Titanium Composite ("PTC") Spacer System	A cervical interbody with 3D printed porous titanium end plates that may promote bone ingrowth and a Polyetheretherketones ("PEEK") core to maintain imaging characteristics							
FORZA PTC Spacer System	A posterior lumbar interbody with 3D printed porous titanium end plates that may promote bone ingrowth and a PEEK core to maintain imaging characteristics							
PILLAR SA PTC PEEK Spacer System	A standalone Anterior Lumbar Interbody Fusion ("ALIF") lumbar interbody with 3D printed porous titanium end plates that may promote bone ingrowth and a PEEK core to maintain imaging characteristics							

Product	Primary Application
FIREBIRD / FIREBIRD NXG Spinal Fixation System	A system of rods, crossbars, and modular pedicle screws designed to be implanted during a posterior lumbar spine fusion procedure
JANUS Midline Fixation Screw	An addition to the Firebird Spinal Fixation System designed to achieve more cortical bone purchase in the medial to lateral trajectory, when compared to traditional pedicle screws, and that provides surgeons with the option of a midline approach
Connector System for revisions	A comprehensive system to reduce the complexity of revising and extending existing spinal constructs; this eliminates the need to remove existing hardware while providing stability at adjacent levels
CENTURION Posterior Occipital Cervico-Thoracic ("POCT") System	n A multiple component system comprised of a variety of non-sterile, single use components made of titanium alloy or cobalt chrome that allow the surgeon to build a spinal implant construct
FIREBIRD SI	A minimally invasive screw system that is intended for fixation of sacroiliac joint disruptions in skeletally mature patients
FIREBIRD Deformity Correction System	An extension to the Firebird Spinal Fixation System that provides additional instrument and implant options for complex thoracolumbar spine procedures
PHOENIX Minimally Invasive Spinal Fixation System	A multi-axial extended reduction screw body used with the Firebird Spinal Fixation System designed to be implanted during a posterior thoracolumbar spine fusion procedure
LONESTAR Cervical Stand Alone ("CSA")	A stand-alone spacer system designed to provide the biomechanical strength to a traditional or minimal invasive Anterior Cervical Discectomy and Fusion ("ACDF") procedure with less disruption of patient anatomy and to preserve the anatomical profile
SKYHAWK Lateral Interbody Fusion System & Lateral Plate System	Provides a complete solution for the surgeon to perform a Lateral Lumbar Interbody Fusion, an approach to spinal fusion in which the surgeon accesses the intervertebral disc space using a surgical approach from the patient's side that disturbs fewer structures and tissues
FORZA Spacer System	PEEK interbody devices for PLIF and TLIF procedures

#### **Motion Preservation Solutions**

In 2018, we acquired Spinal Kinetics Inc., a privately held developer and manufacturer of artificial cervical and lumbar discs, namely the M6-C cervical and M6-L lumbar artificial discs, which are used to treat patients suffering from degenerative disc disease of the spine. The M6 discs are the only artificial discs that mimic the anatomic structure of a natural disc by incorporating an artificial viscoelastic nucleus and fiber annulus into their design. Like a natural disc, this unique construct allows for shock absorption at the implanted level, as well as provides a controlled range of motion when the spine transitions in its combined complex movements. Both discs have European Commission CE mark approval and prior to 2019, had historically been exclusively distributed outside the U.S. In February 2019, we received FDA approval of the M6-C artificial cervical disc to treat patients with cervical disc degeneration. We released the M6-C artificial cervical disc in the U.S. in 2019 through a controlled market launch accompanied by an extensive training and education curriculum for surgeons. As of December 31, 2019, we have recorded \$4.1 million in motion preservation sales within the U.S. market. In addition, we are in the planning phase of a 2-level investigational device exemption study for the M6-C artificial cervical disc, which we plan to initiate in 2020.

# Spinal Repair Solutions

We provide a wide array of implants designed for use primarily in cervical, thoracic, and lumbar fusion surgeries. These implants are made of either metal or a thermoplastic compound called PEEK. The majority of the implants that we offer are made of titanium metal. The Spinal Fixation System, the Firebird Spinal Fixation System, the Phoenix Minimally Invasive Spinal Fixation System, the Ascent, Ascent LE, and the Centurion POCT Systems are sets of rods, cross connectors and screws that are implanted during

posterior fusion procedures. The Firebird Modular and pre-assembled Spinal Fixation Systems are designed to be used in either open or minimally-invasive posterior lumbar fusion procedures with our ProView MAP System. To complement our plates, rods and screw fixation options we offer an entire portfolio of cervical and thoracolumbar PEEK interbody devices within our Pillar and Forza product lines. This interbody portfolio includes two stand-alone devices, Lonestar and Pillar SA, as well as the Construx Mini PTC system, a novel titanium composite spacer, which offers a superior alternative to other plasma spray coated options currently available on the market. We also offer specialty plates and screws that are used in less common procedures, and as such, are not manufactured by many device makers.

#### **Biologics**

Within the Biologics product category of the Global Spine reporting segment, we provide a portfolio of regenerative products and tissue forms that allow physicians to successfully treat a variety of spinal and orthopedic conditions. This product category specializes in the marketing of regeneration tissue forms and distributes MTF Biologics ("MTF") tissues to hospitals and healthcare providers, primarily in the U.S., through a network of independent distributors and sales representatives. Our partnership with MTF allows us to exclusively market the Trinity ELITE and Trinity Evolution tissue forms for musculoskeletal defects to enhance bony fusion.

# **Biologics Strategy**

In order to drive further adoption and use of our products, our strategy for the Biologics product category is to educate physicians, both directly and through our sales force, of the surgical and patient benefits of using our portfolio of regenerative tissues and products to augment their surgical procedures and results. Our key strategies in this product category are to:

- Leverage sales channels of our spine and extremities businesses to expand coverage
- Continue to leverage the surgeon-preferred Trinity ELITE characteristics and clinical evidence
- · Continue to expand and promote the breadth of the portfolio with offerings such as fiberFUSE
- Accelerate new tissue development projects with MTF

#### **Biologics Products**

The following table and discussion identify the principal Biologics products by trade name and describe their primary applications:

Product	Primary Application						
Trinity ELITE	A fully moldable allograft with viable cells used during surgery that is designed to enhance the success of a spinal fusion or bone fusion procedure						
Trinity Evolution	An allograft with viable cells used during surgery that is designed to enhance the success of a spinal fusion or bone fusion procedure						
AlloQuent Structural Allografts	Interbody devices made of cortical bone (or cortical-cancellous grafts) that are designed to restore the space that has been lost between two or more vertebrae due to a degenerated disc during a spinal fusion procedure						
Collage Synthetic Osteoconductive Scaffold	A synthetic bone void filler						
fiberFUSE	An allograft comprised of a mixture of cancellous bone and demineralized cortical bone that creates a natural scaffold for revascularization, cellular ingrowth, and new bone formation						
VersaShield	A thin hydrophilic amniotic membrane designed to serve as a wound or tissue covering for a variety of surgical demands						

The regenerative solutions offered as part of the Biologics product category's portfolio include solutions for a variety of musculoskeletal defects used in spinal and extremity orthopedic procedures.

#### Regenerative Solutions

The premier biologics tissues we market include the Trinity ELITE and Trinity Evolution tissue forms, which are cortical cancellous allografts that contain viable cells and are used during surgery in the treatment of musculoskeletal defects for bone reconstruction and repair. These allografts are intended to offer a viable alternative to an autograft procedure, as harvesting autograft has been shown to add risk of an additional surgical procedure and related patient discomfort in conjunction with a repair surgery.

To provide structural support and facilitate bone growth in spine fusion procedures, we offer a full line of AlloQuent allograft structural spacers derived from human cadaveric bone. These spacers are used to restore the height lost between vertebral bodies when discs are removed in fusion procedures and to facilitate spine fusion.

We offer the Collage product as an osteoconductive scaffold and a bone graft substitute product. The product is a combination synthetic bone graft substitute comprised of beta tri-calcium phosphate and type 1 bovine collagen.

The fiberFUSE tissue is the newest biologics tissue form with handling characteristics analogous to Trinity ELITE and expands the offering to address a broader scope of surgical applications. This tissue offering was developed by MTF in close collaboration to expand the Orthofix portfolio and provides an opportunity to serve a great number of clinical indications addressed by surgeons.

We also market the VersaShield tissue form, a thin hydrophilic amniotic membrane designed to serve as a wound or tissue covering for a variety of surgical demands. Amniotic tissue forms derived from donated human placenta are used in a wide variety of applications and are valued for their healing properties, scar reduction and anti-adhesion characteristics. The VersaShield tissue is derived from the human placental layers, amnion and chorion, thin elastic membranes that allow the tissue to conform to the surface of the surgical site.

We receive marketing fees through our collaboration with MTF for the Trinity ELITE, Trinity Evolution, fiberFUSE, and VersaShield tissues. MTF processes the tissues, maintains inventory, and invoices hospitals and surgery centers and other points of care for service fees, which are submitted by customers via purchase orders. We have exclusive worldwide rights to market the Trinity ELITE and Trinity Evolution tissue forms. We market the VersaShield tissue under a private label brand via a non-exclusive marketing agreement for the tissue form.

To date, our Biologics products are offered primarily in the U.S. market due in part to restrictions on providing U.S. human donor tissue in other countries.

#### **Global Extremities**

The Global Extremities reporting segment offers products and solutions that allow physicians to successfully treat a variety of orthopedic conditions unrelated to the spine. This reporting segment specializes in the design, development, and marketing of the Company's orthopedic products used in fracture repair, deformity correction, and bone reconstruction procedures. We distribute these products through a global network of distributors and sales representatives to sell our orthopedic products to hospitals and healthcare providers.

# **Global Extremities Strategy**

Our strategy for the Global Extremities reporting segment is to continue to provide highly valued external and internal temporary to definitive fixation devices used in fracture repair, deformity correction, and bone reconstruction. Our key strategies in this segment are:

- Geographic market & product focus on:
  - Pediatrics & deformity correction worldwide
  - Foot & ankle in the U.S.
  - o Trauma in selected geographies
- Promote the advantages of our JuniOrtho pediatric portfolio and support tools
- Leverage the market acceptance of the TL-Hex platform
- Close on the FITBONE asset acquisition transaction and Integrate the FITBONE business

- Continue the strong pace of new product launches
- Acquire or license products, technologies and companies to support these market opportunities.

# **Global Extremities Products**

The following table and discussion identify the principal Global Extremities products by trade name and describe their primary applications:

Product	Primary Application
External Fixator	External fixation and internal fixation, including the Sheffield Ring, limb-lengthening systems, DAF, ProCallus, XCaliber and Gotfried P.C.C.P
Eight-Plate + Guided Growth System	The 2 <sup>nd</sup> generation plate for treatment for bowed legs or knock knees of children
LRS Advanced Limb Reconstruction System	External fixation for limb lengthening and corrections of deformity
TrueLok	Ring fixation system for trauma, limb lengthening, and deformity correction
TL-HEX TrueLok Hexapod System ("TL-HEX")	Hexapod external fixation system for trauma and deformity correction with associated software
HEX RAY	An innovative software to manage pre-operation and post-operation planning in connection with the TL-HEX system
Galaxy Fixation System	External fixation system for temporary and definitive fracture fixation, including anatomical specific clamps
VeroNail Trochanteric Nailing System	Trochanteric titanium nailing system for hip fractures
Centronail Titanium Nailing System	Complete range of intramedullary nails including the Humeral Nail
Ankle Hind Foot Nailing System ("AHN")	An extension of the Centronail range of intramedullary nails
Chimaera Hip Fracture System	A strong, versatile hip nail that allows fixation to be adapted to the type of fracture being treated
Agile Nail	A small rigid intramedullary nail to treat adolescent patients
MJ FLEX	An innovative elastic nail with a unique design to be used in pediatric patients
OSCAR	Ultrasonic bone cement removal
Ankle Hindfoot Nail ("AHN")	A differentiated solution for hindfoot fusions
Contours Lapidus Plating System ("LPS")	A plate design contoured specifically for a tarsometatarsal ("TMT") fusion
Contours VPS Volar Plating System III	The 3rd generation of plates to treat distal radius fractures
RIVAL Foot & Ankle System	A comprehensive offering of foot and ankle solutions across the range of two plating lines, Rival VIEW and Rival REDUCE, accompanied by Rival BITE, an extensive portfolio of headed cannulated and headless compression screws

We provide internal and external fixation solutions for extremity repair and deformity correction, both for adults and children. Our fracture repair products consist of fixation devices designed to stabilize a broken bone until it can heal. With these devices, we can treat simple and complex fracture patterns, along with achieving deformity corrections.

#### External Fixation

External fixation devices are used to stabilize fractures and offer an ideal treatment for complex fractures, fractures near the joints, and in patients with known risk factors or co-morbidities. The treatment method entails the use of bone screws and/or wires which are inserted percutaneously into the bone and stabilized with an external device. The treatment is minimally invasive and allows external manipulation of the bone to obtain and maintain final bone alignment (reduction). The bone is fixed in this way until healing. External fixation devices may also be used temporarily in complex trauma cases to stabilize the fracture prior to treating it definitively. In these situations, the device offers rapid fracture stabilization, which is important in life saving as well as limb salvage procedures.

The Galaxy Fixation System is a modular external fixation system indicated for fracture treatment in the upper and lower limbs. The system incorporates a streamlined combination of clamps, with both pin-to-bar and bar-to-bar coupling capabilities, offering a complete range of applications, including specific anatomic units for the elbow, shoulder, and wrist. It is designed both for temporary and definitive fracture fixation. It is also available in sterile kits for convenience and ease of use.

The XCaliber external fixator, made of lightweight radiolucent material, offers improved X-ray visualization of the fracture and alignment. It is available in three configurations for the treatment of long bone fractures, fractures near joints, and ankle fractures. XCaliber fixators are supplied pre-assembled, ready to use, in sterile kits to decrease time in the operating room.

The LRS Advanced Limb Reconstruction System uses callus distraction to lengthen bone in a variety of procedures, including monofocal lengthening and corrections of deformity. Its multifocal procedures include bone transport, simultaneous compression and distraction at different sites, bifocal lengthening, and correction of deformities with shortening.

The TrueLok Ring Fixation System is a surgeon-designed, lightweight external fixation system for limb lengthening and deformity correction. In essence, a ring fixation construct consists of circular rings and semi-circular external supports centered on the patient's limb and secured to the bone by crossed, tensioned wires and half pins. The rings are connected externally to provide stable bone fixation. The main external connecting elements are threaded rods, linear distractors, or hinges and angular distractors, which allow the surgeon to adjust the relative position of rings to each other. The ring positions are manipulated either acutely or gradually in precise increments to perform the correction of the deformity, limb lengthening, or bone segment transportation as required by the surgeon. Created with pre-assembled function blocks, the TrueLok products are a simple, stable, versatile ring fixation system.

The TL-HEX System is a hexapod-based system designed at Texas Scottish Rite Hospital for Children as a three-dimensional bone segment reposition module to augment the previously developed TrueLok frame. The system consists of circular and semi-circular external supports secured to the bones by wires and half pins and interconnected by six struts. This allows multi-planar adjustment of the external supports. The rings' positions are adjusted either rapidly or gradually in precise increments to perform bone segment repositioning in three-dimensional space. All the basic components from the TrueLok Ring Fixation System (wire and half pin fixation bolts, posts, threaded rods, plates, and other assembly components and instrumentation) can be utilized with the TL-HEX system; therefore, external supports from both systems can be connected to each other when building fixation blocks.

The addition of HEX-Ray software to the TL-HEX platform allows a unique and realistic representation of the case using real x-rays and providing more accurate and user-friendly management of the surgery. The software is intended to help the surgeon save time by avoiding undesired corrections and mistakes related to software management.

Linked to the TrueLok and TL-HEX lines, we have also developed an app to support the patient. The patient is an active part in the healing process and the app is designed to improve the communication and connection with the hospital staff by saving time, optimizing the number of visits to the clinic, and supporting the patient with motivational messages and an online tutorial to sort out the most common issues. Also related to the TrueLok and TL-HEX lines, but specifically developed for younger patients, we created the Edugame, an online app to help patients learn by playing a virtual game. It has been developed with psychologist involvement in order to deliver useful information in an effective way.

Our proprietary XCaliber bone screws are designed to be compatible with our external fixators and reduce inventory for our customers. Some of these screws are covered with hydroxyapatite, a mineral component of bone that reduces superficial inflammation of soft tissue and improves bone grip. Other screws in this proprietary line do not include the hydroxyapatite coating, but offer different advantages, such as patented thread designs for better adherence in hard or poor quality bone. We also offer

cylindrical screws, which are geared towards the trauma applications of the Galaxy Fixation System. We believe we have a full line of bone screws to meet the demands of the market.

In 2017, we introduced JuniOrtho, a brand identity for extremity fixation pediatric products. JuniOrtho is a range of products and resources dedicated to pediatrics and young adults with bone fractures and deformities that brings together our expertise and products in the pediatric space.

#### Internal Fixation

Internal fixation devices come in various sizes, depending on the bone that requires treatment, and consist of either long rods, commonly referred to as nails, or plates that are attached with the use of screws. A nail is inserted into the medullary canal of a fractured long bone of the human arm or leg (e.g., humerus, femur, or tibia). Alternatively, a plate is attached by screws to an area such as a broken wrist, hip, or foot. Examples of our internal fixation devices include:

- The Chimaera Hip Nailing System, which is indicated for the treatment of hip fractures. The Chimaera hip nail is designed to offer improvements over currently available nails by taking advantage of decades of knowledge in hip nailing. The result is a strong, versatile nail that allows fixation to be adapted to the type of fracture being treated. An all-in-one dedicated instrument tray contains a color-coded instrument set designed for increased precision during the surgical steps as well as intuitive instrument selection.
- The VeroNail Trochanteric Nailing System, which is indicated for the treatment of hip fractures. The nail design is minimally-invasive to reduce surgical trauma and allow patients to begin walking again shortly after the operation. It uses a dual screw configuration that we believe provides more stability than previous single screw designs.
- The Centronail Titanium Nailing System, which comprises a range of titanium nails to stabilize fractures in the femur, tibia, and humerus. The system offers improved mechanical distal targeting and minimal instrumentation to optimize inventory.
- The Ankle Hindfoot Nail, which is an arthrodesis nailing system designed to improve upon the stability, simplicity, and flexibility of current hindfoot nails.
- The Agile Nail, which is designed to treat femoral fractures in patients where a small rigid nail is needed. Its unique design requires less inventory and is the smallest titanium nail currently available in the market. This provides further benefits such as reduced invasiveness and lightness.
- The MJ Flex, which is an elastic nail system that innovates a technique considered to be the gold standard in the treatment of pediatric fractures. The unique shape of the nail offers improved strength, better visibility, more rigidity, and potentially a reduced usage of x-rays. The system is available in different sizes, both in titanium and stainless steel.
- The RIVAL Foot & Ankle System, which is a comprehensive offering of foot and ankle solutions across the range of two plating lines, Rival VIEW and Rival
  REDUCE, accompanied by Rival BITE, an extensive portfolio of headed cannulated and headless compression screws. The system is comprised of titanium
  plates and screws for the stabilization and fixation of fresh fractures, revision procedures, joint fusion, and reconstruction of small bones of the hand,
  feet, wrist, ankles, fingers, and toes.

In addition to treating bone fractures, we also design, manufacture and distribute devices intended to treat congenital bone conditions, such as angular deformities (e.g., bowed legs in children), or degenerative diseases, as well as conditions resulting from a previous trauma. An example of a product offered in this area is the Eight-Plate Guided Growth System.

# **Product Development**

Our primary research and development facilities are located in Verona, Italy and Lewisville, Texas. We work with leading hospital research institutions, as well as with MTF, physicians, and other consultants, on the long-term scientific planning and evolution of our products and therapies. Several of the products that we market have been developed through these collaborations. In addition, we periodically receive suggestions for new products and product enhancements from the scientific and medical community, some of which result in us entering into assignment or license agreements with physicians and third parties.

In 2019, 2018, and 2017, we incurred \$34.6 million, \$33.2 million, and \$29.7 million, respectively, of research and development expense.

#### FITBONE Asset Acquisition

On February 3, 2020, we entered into an Asset Purchase Agreement (the "Purchase Agreement") with Wittenstein SE ("Wittenstein"), a privately-held German-based company, to acquire assets associated with the FITBONE intramedullary lengthening system for limb lengthening of the femur and tibia bones. Under the terms of the Purchase Agreement, as consideration for the acquired assets, we will pay \$18 million in cash consideration and will enter into manufacturing supply contract with Wittenstein. The acquisition is anticipated to close by the end of the first quarter of 2020, subject to customary closing conditions.

### Patents, Trade Secrets, Assignments and Licenses

We rely on a combination of patents, trade secrets, assignment and license agreements, and non-disclosure agreements to protect our proprietary intellectual property. We own numerous U.S. and foreign patents, have numerous pending patent applications, and have license rights under patents held by third parties. Our primary products are patented in the major markets in which they are sold. No assurance can be given that pending patent applications will result in issued patents, that patents issued or assigned to or licensed by us will not be challenged or circumvented by competitors, or that such patents will be found to be valid or sufficiently broad to protect our technology or to provide us with any competitive advantage or protection. Third parties might also obtain patents that would require assignments to or licensing by us to conduct our business. We rely on confidentiality and non-disclosure agreements with employees, consultants, and other parties to protect, in part, trade secrets and other proprietary technology.

We obtain assignments or licenses of varying durations for certain of our products from third parties. We typically acquire rights under such assignments or licenses in exchange for lump-sum payments or arrangements under which we pay a percentage of sales to the licensor. However, while assignments or licenses to us generally are irrevocable, no assurance can be given that these arrangements will continue to be made available to us on terms that are acceptable to us, or at all. The terms of our license and assignment agreements vary in length from a specified number of years to the life of product patents or the economic life of the product. These agreements generally provide for royalty payments and termination rights in the event of a material breach.

# **Compliance and Ethics Program**

It is a fundamental policy of our Company to conduct business in accordance with the highest ethical and legal standards. We have a comprehensive compliance and ethics program, which is overseen by our Chief Ethics and Compliance Officer who reports directly to our Chief Executive Officer and the Compliance Committee of the Board of Directors. The program is intended to promote lawful and ethical business practices throughout our domestic and international businesses. It is designed to prevent and detect violations of applicable federal, state, and local laws in accordance with the standards set forth in guidance issued by the U.S. Department of Justice ("Evaluation of Corporate Compliance Programs" (updated April 2019)), the Office of Inspector General (HCCA-OIG "Measuring Compliance Program Effectiveness: A Resource Guide" (March 2017)) and the U.S. Sentencing Commission ("Effective Compliance and Ethics Programs" (November 2014)). Key elements of the program include:

- · Organizational oversight by senior-level personnel responsible for the compliance function within our Company;
- Written standards and procedures, including a Corporate Code of Conduct;
- Methods for communicating compliance concerns, including anonymous reporting mechanisms;
- Investigation and remediation measures to ensure prompt response to reported matters and timely corrective action;
- Compliance education and training for employees and contracted business associates;
- Auditing and monitoring controls to promote compliance with applicable laws and assess program effectiveness;
- Disciplinary guidelines to enforce compliance and address violations;
- · Due diligence reviews of high risk intermediaries and exclusion lists screening of employees and contracted business associates; and
- Risk assessments to identify areas of compliance risk.

#### **Government Regulation**

Classification and Approval of Products by the FDA and other Regulatory Authorities

Our research, development, and clinical programs, and our manufacturing and marketing operations, are subject to extensive regulation in the U.S. and other countries. Most notably, all of our products sold in the U.S. are subject to the Federal Food, Drug, and Cosmetic Act and the Public Health Services Act as implemented and enforced by the FDA. The regulations that cover our products and facilities vary widely from country to country. The amount of time required to obtain approvals or clearances from regulatory authorities also differs from country to country.

Unless an exemption applies, each medical device we commercially distribute in the U.S. is covered by premarket notification ("510(k)") clearance, letter to file, approval of a premarket approval application ("PMA"), or some other approval from the FDA. The FDA classifies medical devices into one of three classes, which generally determine the type of FDA approval required. Devices deemed to pose low risk are placed in class I, while devices that are considered to pose moderate risk are placed in class II, and devices deemed to pose the greatest risks requiring more regulatory controls necessary to provide a reasonable assurance of safety and effectiveness, or devices deemed not substantially equivalent to a device that previously received 510(k) clearance (as described below), are placed in class III. Our Spinal Implants and Global Extremities products are, for the most part, class II devices and the instruments used in conjunction with these products are generally class I. Our Bone Growth Therapies products and the M6-C artificial cervical disc are classified as class III by the FDA, and have been approved for commercial distribution in the U.S. through the PMA process.

The medical devices we develop, manufacture, distribute, and market are subject to rigorous regulation by the FDA and numerous other federal, state, and foreign governmental authorities. The process of obtaining FDA clearance and other regulatory approvals to develop and market a medical device, particularly from the FDA, can be costly and time-consuming, and there can be no assurance such approvals will be granted on a timely basis, if at all. While we believe we have obtained all necessary clearances and approvals for the manufacture and sale of our products and that they are in material compliance with applicable FDA and other material regulatory requirements, there can be no assurance that we will be able to continue such compliance.

To market our devices within the member states of the European Union ("E.U."), we are required to comply with the European Medical Device Directives. Under the European Medical Device Directives, all medical devices must bear the CE mark. To obtain authorization to affix the CE mark to our products, a recognized European Notified Body must assess our quality systems and the product's conformity to the requirements of the European Medical Device Directives. We are subject to an annual inspection by a Notified Body for compliance with these requirements.

In 2017, the E.U. adopted the E.U. Medical Device Regulation (Council Regulations 2017/745) which imposes stricter requirements for the marketing and sale of medical devices, including new quality system and post-market surveillance requirements. The regulation provides a transition period until May 2020 for currently-approved medical devices to meet the additional requirements and for certain devices this transition period can be extended until May 2024. After this transition period, all medical devices marketed in the E.U. will require certification according to these new requirements. Complying with this new regulation will require us to incur significant costs over the transition period and failure to meet the requirements of the regulation could adversely impact our business in the EU and other countries that utilize or rely on E.U. requirements for medical device registrations.

Within our Biologics product category, we market tissue for bone repair and reconstruction under the brand names Trinity ELITE, Trinity Evolution, and fiberFUSE, our allogeneic bone matrices comprised of cancellous bone containing viable stem cells and a demineralized cortical bone component. These allografts are regulated under the FDA's Human Cell, Tissues and Cellular and Tissue-Based Products, or HCT/P, regulatory paradigm and not as a medical device, biologic, or a drug. The Biologics product category also distributes certain surgical implant products known as "allograft" products that are derived from human tissues and which are used for bone reconstruction or repair and are surgically implanted into the human body. These tissues are regulated by the FDA as minimally-manipulated tissue and are covered by the FDA's "Good Tissues Practices" regulations, which cover all stages of allograft processing. There can be no assurance our suppliers will continue to meet applicable regulatory requirements or that those requirements will not be changed in ways that could adversely affect our business. Further, there can be no assurance these products will continue to be made available to us or that applicable regulatory standards will be met or remain unchanged. Moreover, products derived from human tissue or bones are from time to time subject to recall for certain administrative or safety reasons and we may be affected by one or more such recalls. For a further description of some of these risks, see Item 1A of this Annual Report under the heading "Risk Factors."

#### Certain Other Product and Manufacturing Regulations

After a device is placed on the market, numerous regulatory requirements continue to apply. Those regulatory requirements include: product listing and establishment registration; Quality System Regulation ("QSR"), which require manufacturers, including third-party manufacturers, to follow stringent design, testing, control, documentation, and other quality assurance procedures during all aspects of the manufacturing process; labeling regulations and governmental prohibitions against the promotion of products for uncleared, unapproved, or off-label uses or indications; clearance of product modifications that could significantly affect safety or efficacy or that would constitute a major change in intended use of one of our cleared devices; approval of product modifications that affect the safety or effectiveness of one of our PMA approved devices; Medical Device Adverse Event Reporting regulations, which require that manufacturers report to the FDA and other foreign governmental agencies if their device may have caused or contributed to a death or serious injury, or has malfunctioned in a way that would likely cause or contribute to a death or serious injury if the malfunction of the device or a similar device were to recur; post-approval restrictions or conditions, including post-approval study commitments; post-market surveillance regulations, which apply when necessary to protect the public health or to provide additional safety and effectiveness data for the device; the FDA's recall authority, whereby it can ask, or under certain conditions, order device manufacturers to recall a product from the market that is in violation of governing laws and regulations; regulations pertaining to voluntary recalls; and notices of corrections or removals.

We and certain of our suppliers also are subject to announced and unannounced inspections by the FDA and European Notified Bodies to determine our compliance with the FDA's QSR and other international regulations. If the FDA were to find that we or certain of our suppliers have failed to comply with applicable regulations, the agency could institute a wide variety of enforcement actions, ranging from a public warning letter to more severe sanctions such as fines and civil penalties against us, our officers, our employees, or our suppliers; unanticipated expenditures to address or defend such actions; delays in clearing or approving, or refusal to clear or approve, our products; withdrawal or suspension of approval of our products or those of our third-party suppliers by the FDA or other regulatory bodies; product recall or seizure; interruption of production; operating restrictions; injunctions; and criminal prosecution. In addition to FDA inspections, all manufacturing facilities of the Company are subject to annual Notified Body inspections.

Moreover, governmental authorities outside the U.S. have become increasingly stringent in their regulation of medical devices. Our products may become subject to more rigorous regulation by non-U.S. governmental authorities in the future. U.S. or non-U.S. government regulations may be imposed in the future that may have a material adverse effect on our business and operations. For a description of some of these risks, see Item 1A of this Annual Report under the heading "Risk Factors."

#### **Accreditation Requirements**

Our subsidiary, Orthofix Inc., has been accredited by the Accreditation Commission for Health Care, Inc. ("ACHC") for medical supply provider services with respect to durable medical equipment, prosthetics, orthotics, and supplies ("DMEPOS"). ACHC, a private, not-for-profit corporation, which is certified to ISO 9001:2000 standards, was developed by home care and community-based providers to help companies improve business operations and quality of patient care. Although accreditation is generally a voluntary activity where healthcare organizations submit to peer review their internal policies, processes, and patient care delivery against national standards, the Centers for Medicare and Medicaid Services ("CMS") required DMEPOS suppliers to become accredited. We believe that by attaining accreditation, Orthofix Inc. has demonstrated its commitment to maintain a higher level of competency and strive for excellence in its products, services, and customer satisfaction.

### Third-Party Payor Requirements

Our products may be reimbursed by third-party payors, such as government programs, including Medicare, Medicaid, and Tricare, or private insurance plans and healthcare networks. Third-party payors may deny reimbursement if they determine that a device provided to a patient or used in a procedure does not meet applicable payment criteria or if the policyholder's healthcare insurance benefits are limited. Also, non-government third-party payors are increasingly challenging the medical necessity and prices paid for our products and services. The Medicare program is expected to continue to implement a new payment mechanism for certain DMEPOS items via the implementation of its competitive bidding program. Bone growth therapy devices are currently exempt from this competitive bidding process.

#### Laws Regulating Healthcare Fraud and Abuse; State Healthcare Laws

Our sales and marketing practices are also subject to a number of U.S. laws regulating healthcare fraud and abuse such as the federal Anti-Kickback Statute and the federal Physician Self-Referral Law (known as the "Stark Law"), the Civil False Claims Act, and

the Health Insurance Portability and Accountability Act of 1996 ("HIPAA"), as well as numerous state laws regulating healthcare and insurance. These laws are enforced by the Office of Inspector General within the U.S. Department of Health and Human Services, the U.S. Department of Justice, and other federal, state, and local agencies. Among other things, these laws and others generally (1) prohibit the provision of anything of value in exchange for the referral of patients for, or the purchase, order, or recommendation of, any item or service reimbursed by a federal healthcare program, (including Medicare and Medicaid); (2) require that claims for payment submitted to federal healthcare programs be truthful; (3) prohibit the transmission of protected healthcare information to persons not authorized to receive that information; and (4) require the maintenance of certain government licenses and permits.

#### Laws Protecting the Confidentiality of Health Information

U.S. federal and state laws protect the confidentiality of certain health information, in particular individually identifiable information such as medical records, and restrict the use and disclosure of that protected information. At the federal level, the Department of Health and Human Services promulgates health information privacy and security rules under HIPAA. These rules protect health information by regulating its use and disclosure, including for research and other purposes. Failure of a HIPAA "covered entity" to comply with HIPAA regarding such "protected health information" could constitute a violation of federal law, subject to civil and criminal penalties. Covered entities include healthcare providers (including certain of those that sell devices or equipment) that engage in particular electronic transactions, including, as we do, the transmission of claims to health plans. Consequently, health information that we access, collect, analyze, and otherwise use and/or disclose includes protected health information that is subject to HIPAA. As noted above, many state laws also pertain to the confidentiality of health information. Such laws are not necessarily preempted by HIPAA, in particular those state laws that afford greater privacy protection to the individual than HIPAA. These state laws typically have their own penalty provisions, which could be applied in the event of an unlawful action affecting health information.

In the European Union, the General Data Protection Regulation ("GDPR"), which became enforceable in May 2018, includes, among other things, a requirement for prompt notice of data breaches to data subjects and supervisory authorities in certain circumstances and significant fines for non-compliance. Internationally, some countries have also passed laws that require individually identifiable data on their citizens to be maintained on local servers and that may restrict transfer or processing of that data.

These laws and regulations impact the ways in which we use and manage personal data, protected health information, and our information technology systems. They also impact our ability to move, store, and access data across geographic boundaries. Compliance with these requirements may require changes in business practices, complicate our operations, and add complexity and additional management and oversight needs. They also may complicate our clinical research activities, as well as product offerings that involve transmission or use of clinical data.

#### Physician Payments Sunshine Provision of the Affordable Care Act

The Physician Payments Sunshine Provision of the Affordable Care Act (Section 6002) (the "Sunshine Act"), which was enacted in 2010 and became subject to final CMS rules in 2013, requires public disclosure to the United States government of payments to physicians and teaching hospitals, including in-kind transfers of value such as gifts or meals. The Act also provides penalties for non-compliance. The Act requires that we file an annual report on March 31st of a calendar year for the transfers of value incurred for the prior calendar year.

In 2018, the Substance Use-Disorder Prevention that Promotes Opioid Recovery and Treatment for Patients and Communities Act (the "SUPPORT Act") was signed into law. The SUPPORT Act expands the reporting obligation under the Sunshine Act to include payments and other transfers of value made to physician assistants, nurse practitioners, clinical nurse specialists, certified registered nurse anesthetists, and certified nurse midwives. These expanded reporting obligations are effective for payments reported in 2022, with payment tracking beginning in 2021. Non-compliance with the Sunshine Act or SUPPORT Act is subject to civil monetary penalties.

In addition to the Sunshine Act, as expanded by the SUPPORT Act, we seek to comply with other international and individual state transparency laws, like Massachusetts and Vermont.

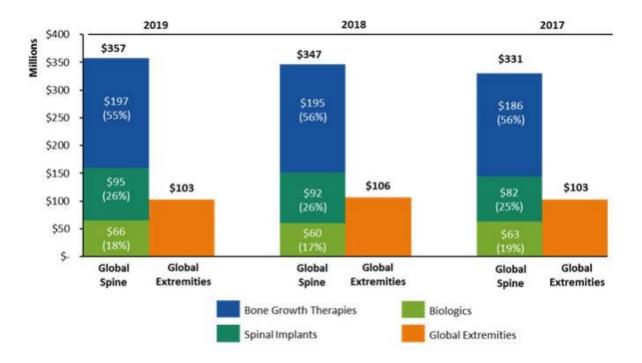
# Sales, Marketing and Distribution

General Trends

We believe that demographic trends, principally in the form of a better informed, more active, and aging population in the major healthcare markets of the U.S., Western Europe, and Japan, together with opportunities in emerging markets such as the Asia-Pacific Region and Latin America, as well as our focus on innovative products, will continue to have a positive effect on the demand for our products.

#### Reporting Segments and Product Categories

Our revenues are generated from the sales of products in our two reporting segments, Global Spine and Global Extremities. Further, our Global Spine reporting segment is comprised of three primary product categories: Bone Growth Therapies, Spinal Implants, and Biologics. See the following chart for the distribution of sales between each of our reporting segments and product categories for each of the years ended December 31, 2019, 2018, and 2017.



#### Sales Network

We have a broad sales network comprised of direct sales representatives, sales agents, and distributors. This established sales network provides us with a platform to introduce new products and expand sales of existing products. We distribute our products worldwide in more than 70 countries.

In our largest market, the U.S., our sales network is generally comprised of four sales forces, each addressing one of our primary product categories; however, many independent distributors sell products for more than one of our product categories. Within our Global Spine reporting segment, a hybrid distribution network of direct sales representatives and independent distributors sells products in our Bone Growth Therapies product category, while primarily independent distributors sell products in our Spinal Implants and Biologics product categories. In the U.S., our Global Extremities reporting segment products are primarily sold by independent distributors.

Outside the U.S., we employ direct sales representatives and contract with independent distributors. In order to provide support to our independent sales network, we have sales and product specialists who regularly visit independent distributors to provide training and product support.

#### Marketina and Product Education

We market and sell our products principally to physicians, hospitals, ambulatory surgery centers, integrated health delivery systems, and other purchasing organizations.

We support our sales force through specialized training workshops in which physicians and sales specialists participate. We also produce marketing and training materials, including materials outlining surgical procedures, for our customers, sales force, and distributors in a variety of languages using printed, video, and multimedia formats. We require all of our sales force, direct and independent, to undergo extensive product, policy, and compliance training to ensure adherence to our standards, policies, and applicable law.

To provide additional advanced training for physicians, consistent with the AdvaMed Code of Ethics ("AdvaMed Code") and the MedTech Europe Code of Ethical Business Practice ("MedTech Code"), we organize regular multillingual teaching seminars in multiple locations. Those places include our facility in Verona, Italy, various locations in Latin America, and in Lewisville, Texas. In recent years, thousands of surgeons from around the world attended these product education seminars, which have included a variety of lectures from specialists, as well as demonstrations and hands-on workshops.

#### Competition

Our Bone Growth Therapies product category competes principally with similar products marketed by Zimmer Biomet, Inc.; DJO Global; and Bioventus. The Biologics HCT/P and Spinal Implants products we market compete with products marketed by Medtronic, Inc.; DePuy Synthes, a division of Johnson and Johnson; Stryker Corp.; Zimmer Biomet, Inc.; NuVasive, Inc.; Globus Medical Inc.; and various smaller public and private companies. For Global Extremities devices, our principal competitors include DePuy Synthes; Zimmer Biomet, Inc.; Stryker Corp.; Smith & Nephew plc; and Wright Medical Group N.V.

We believe that we enhance our competitive position by focusing on product features such as ease of use, versatility, cost, and patient acceptability, together with value-added services, such as the STIM onTrack mobile app, HEX RAY software, and our JuniOrtho educational products and services. We attempt to avoid competing based solely on price. Overall cost and medical effectiveness, innovation, reliability, value-added service, and training are the most prevalent methods of competition in the markets for our products, and we believe we compete effectively.

# **Manufacturing and Sources of Supply**

We generally design, develop, assemble, test and package our stimulation, orthopedic, and spinal implant products, and subcontract the manufacture of a substantial portion of the component parts and instruments. We design and develop our AlloQuent Allograft HCT/Ps and subcontract its manufacturing. Through subcontracting a portion of our manufacturing, we attempt to maintain operating flexibility in meeting demand while focusing our resources on product development, education, and marketing, as well as quality assurance standards. Although certain of our key raw materials are obtained from a single source, we believe alternate sources for these materials are available. Further, we believe an adequate inventory supply is maintained to avoid product flow interruptions. Historically, we have not experienced difficulty in obtaining the materials necessary to meet our production schedules.

The Trinity ELITE, Trinity Evolution, and fiberFUSE HCT/Ps, for which we have exclusive marketing rights, are allograft tissue forms that are supplied to customers by MTF in accordance with orders received directly from us. MTF sources, processes, and packages the tissue forms and is the sole supplier of the Trinity ELITE and Trinity Evolution HCT/Ps to our customers.

Our products are currently manufactured and assembled in the U.S. and Italy. We believe our plants comply in all material respects with the requirements of the FDA and all relevant regulatory authorities outside the U.S. For a description of the laws to which we are subject, see Item 1, "Business", under the subheadings "Corporate Compliance and Ethics Program" and "Government Regulation." We actively monitor each of our subcontractors in order to maintain manufacturing and quality standards and product specification conformity.

#### **Employees**

At December 31, 2019, we had 1,055 employees worldwide. Of these, 774 were employed in the U.S. and 281 were employed at other non-U.S. locations. Our relations with our Italian employees, who numbered 196 at December 31, 2019, are governed by the provisions of a National Collective Labor Agreement setting forth mandatory minimum standards for labor relations in the metal

mechanic workers industry. We are not a party to any other collective bargaining agreement. We believe we have good relations with our employees.

#### Item 1A. Risk Factors

In addition to the other information contained in this Annual Report and the exhibits hereto, you should carefully consider the risks described below. These risks are not the only ones that we may face. Additional risks not presently known to us or that we currently consider immaterial may also impair our business operations. This Annual Report also contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of certain factors, including the risks faced by us described below or elsewhere in this Annual Report. Investing in our common stock involves a high degree of risk and if any of these risks or uncertainties occur, the trading price of our common stock could decline and you could lose part or all of your investment.

# Risks Related to our Legal and Regulatory Environment

If we fail to maintain an effective system of internal controls or discover material weaknesses in our internal control over financial reporting, we may not be able to report our financial results accurately or detect fraud, which could harm our business and the trading price of our common stock.

Effective internal controls are necessary for us to produce reliable financial reports and are important in our effort to prevent financial fraud. We are required to periodically evaluate the effectiveness of the design and operation of our internal controls. As has occurred in several years prior, these evaluations may result in the conclusion that enhancements, modifications, or changes to our internal controls are necessary or desirable. While management evaluates the effectiveness of our internal controls on a regular basis, these controls may not always be effective. There are inherent limitations on the effectiveness of internal controls, including collusion, management override, and failure of human judgment. Because of this, control procedures are designed to reduce rather than eliminate business risks. If we fail to maintain an effective system of internal controls or if management or our independent registered public accounting firm were to discover material weaknesses in our internal controls, we may be unable to produce reliable financial reports or prevent fraud, which could harm our financial condition and operating results, and could result in a loss of investor confidence and a decline in our stock price.

We have previously settled violations of the Foreign Corrupt Practices Act and any future violations could further subject us to adverse consequences.

In 2013, we self-reported to the U.S. Department of Justice (the "DOJ") and the SEC an internal investigation of improper payments by our Brazilian subsidiary, Orthofix do Brasil Ltda., regarding non-compliance by such subsidiary with the Foreign Corrupt Practices Act (the "FCPA"). This followed a prior matter that we self-reported to the DOJ and SEC in 2011, and settled in 2012, involving FCPA-related non-compliance by our then Mexican subsidiary, Promeca S.A. de C.V. In January 2017, we consented to a cease-and-desist order with the SEC to settle the Brazil-related violations, pursuant to which we agreed to pay approximately \$6.1 million in disgorgement and penalties, and agreed to retain an independent compliance consultant for one year to review and test our FCPA compliance program. Our engagement of the independent compliance consultant concluded on March 16, 2018.

The FCPA and similar anti-bribery laws in non-U.S. jurisdictions generally prohibit companies and their intermediaries from making improper payments to foreign government officials for the purpose of obtaining or retaining business. The FCPA also imposes accounting standards and requirements on U.S. publicly traded entities and their foreign affiliates, which are intended to prevent the diversion of corporate funds to the payment of bribes and other improper payments. Because of the predominance of government-sponsored healthcare systems around the world, many of our customer relationships outside of the United States are with governmental entities and are therefore subject to such anti-bribery laws.

In connection with our self-reported FCPA violations, we instituted extensive remediation measures, including terminating employees as well as relationships with third-party representatives and distributors, conducting a global review of our anti-corruption and anti-bribery program, implementing regular audits of our third-party distributors and sales agents, developing and implementing new global accounting policies to provide further structure and guidance to foreign subsidiaries, establishing an internal audit function, improving the quality of personnel in our Compliance department, and implementing enhanced anti-corruption compliance training for employees and certain third parties. However, notwithstanding these efforts to make FCPA-

related compliance a priority, our compliance policies and procedures may not always protect us from reckless or criminal acts committed by our employees, distributors, or agents.

Any failure to comply with applicable legal and regulatory obligations in the United States or abroad could adversely affect us in a variety of ways that include, but are not limited to, significant criminal, civil, and administrative penalties, including imprisonment of individuals, fines and penalties, denial of export privileges, seizure of shipments, restrictions on certain business activities, disgorgement and other remedial measures, disruptions of our operations, and significant management distraction. Also, the failure to comply with applicable legal and regulatory obligations could result in the disruption of our distribution and sales activities. Any reduction in international sales, or our failure to further develop our international markets, could have a material adverse effect on our business, results of operations and financial condition.

We are subject to federal and state healthcare fraud, abuse, and anti-self-referral laws, and could face substantial penalties if we are determined not to have fully complied with such laws.

Healthcare fraud and abuse regulations by federal and state governments impact our business. Healthcare fraud and abuse laws potentially applicable to our operations include:

- the federal Anti-Kickback Statute, which prohibits knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce the purchase or recommendation of an item or service reimbursable under a federal healthcare program (such as the Medicare or Medicaid programs);
- the federal Stark law, which prohibits physician self-referral, specifically a referral by a physician of a Medicare or Medicaid patient to an entity providing designated health services if the physician or an immediate family member has a financial relationship with that entity;
- federal false claims laws, which prohibit, among other things, knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other federal government payors that are false or fraudulent; and
- state and non-U.S. laws analogous to each of the above federal laws, such as anti-kickback and false claims laws that may apply to items or services reimbursed by non-governmental or non-U.S. governmental third-party payors, including commercial insurers.

Due to the breadth of some of these laws, there can be no assurance that we will not be found to be in violation of any such laws, and as a result we may be subject to penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, or the exclusion from participation in federal, non-U.S. or state healthcare programs. Any penalties could adversely affect our ability to operate our business and our financial results. Any action against us for violation of these laws, even if we successfully defend against them, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business.

Reimbursement policies of third parties, cost containment measures, and healthcare reform could adversely affect the demand for our products and limit our ability to sell our products.

Our products are sold either directly by us or by independent sales representatives to customers or to our independent distributors and purchased by hospitals, healthcare providers, and patients. These products may be reimbursed by third-party payors, such as government programs, including Medicare, Medicaid, and Tricare, or private insurance plans and healthcare networks. Major third-party payors for medical services in the U.S. and internationally continue to work to contain health care costs and are increasingly challenging the policies and the prices charged for medical products and services. Any medical policy developments that eliminate, reduce, or materially modify coverage of our reimbursement rates for our products could have an impact on our ability to sell our products. In addition, third-party payors may deny reimbursement if they determine that a device or product provided to a patient or used in a procedure does not meet applicable payment criteria or if the policyholder's healthcare insurance benefits are limited. These policies and criteria may be revised from time-to-time.

Limits put on reimbursement could make it more difficult to buy our products and substantially reduce, or possibly eliminate, patient access to our products. In addition, should governmental authorities continue to enact legislation or adopt regulations that affect third-party coverage and reimbursement, access to our products and coverage by private or public insurers may be reduced with a consequential material adverse effect on our sales and profitability.

CMS, in its ongoing implementation of the Medicare program, periodically reviews medical study literature to determine how the literature addresses certain procedures and therapies in the Medicare population. The impact that this information could have on

Medicare coverage policy for our products is currently unknown, but we cannot provide assurances that the resulting actions will not restrict Medicare coverage for our products. There can be no assurance that we or our distributors will not experience significant reimbursement problems in the future related to these or other proceedings. Globally, our products are sold in many countries, such as the U.K., Germany, France, and Italy, which have publicly funded healthcare systems. The ability of hospitals supported by such systems to purchase our products is dependent, in part, upon public budgetary constraints. Any increase in such constraints may have a material adverse effect on our sales and collection of accounts receivable from such sales.

As required by law, CMS has continued efforts to implement a competitive bidding program for selected durable medical equipment, prosthetic, orthotic supplies ("DMEPOS") items paid for by the Medicare program. In this program, Medicare rates are based on bid amounts for certain products in designated geographic areas, rather than the Medicare fee schedule amount. Bone growth stimulation products are currently exempt from this competitive bidding process. We cannot predict which products from any of our businesses may ultimately be affected or whether or when the competitive bidding process may be extended to our businesses. There can be no assurance that the implementation of the competitive bidding program will not have an adverse impact on the sales of some of our products.

We and certain of our suppliers may be subject to extensive government regulation that increases our costs and could limit our ability to market or sell our products.

The medical devices we manufacture and market are subject to rigorous regulation by the FDA and numerous other federal, state, and foreign governmental authorities. These authorities regulate the development, approval, classification, testing, manufacturing, labeling, marketing, and sale of medical devices. Likewise, our use and disclosure of certain categories of health information may be subject to federal and state laws, implemented and enforced by governmental authorities that protect health information privacy and security. For a description of these regulations, see Item 1, "Business," under the subheading "Government Regulation."

The approval or clearance by governmental authorities, including the FDA in the U.S., is generally required before any medical devices may be marketed in the U.S. or other countries. We cannot predict whether, in the future, the U.S. or foreign governments may impose regulations that have a material adverse effect on our business, financial condition, results of operations, or cash flows. The process of obtaining FDA clearance and approvals to develop and market a medical device can be costly, time-consuming, and subject to the risk that such clearances or approvals will not be granted on a timely basis, if at all. The regulatory process may delay or prohibit the marketing of new products and impose substantial additional costs if the FDA lengthens review times for new devices. The FDA has the ability to change the regulatory classification of a cleared or approved device from a higher to a lower regulatory classification, or to reclassify an HCT/P, either of which could materially adversely impact our ability to market or sell our devices. For example, the FDA included Class III bone growth stimulator products in its 2015 strategic priority work plan, as part of a list of 21 product categories it would review for possible down classification. Shortly after the issuance of the work plan, we and other manufacturers of bone growth stimulator products submitted a public comment letter opposing the possible down classification. The FDA did not respond to the comment letter and has not taken any action with respect to the bone growth stimulator product category since publication of the 2015 work plan. If a down classification were to occur and new entrants to the market were able to create technologies with comparable efficacy to our devices, our Bone Growth Therapies products could face additional competition, which could negatively affect our future sales.

In addition, we may be subject to compliance actions, penalties, or injunctions if we are determined to be promoting the use of our products for unapproved or off-label uses, or if the FDA challenges one or more of our determinations that a product modification did not require new approval or clearance by the FDA. Device manufacturers are permitted to promote products solely for the uses and indications set forth in the approved product labeling. A number of enforcement actions have been taken against manufacturers that promote products for "off-label" uses, including actions alleging that federal health care program reimbursement of products promoted for "off-label" uses are false and fraudulent claims to the government. The failure to comply with "off-label" promotion restrictions can result in significant administrative obligations and costs, and potential penalties from, and/or agreements with, the federal government.

We and certain of our suppliers also are subject to announced and unannounced inspections by the FDA to determine our compliance with FDA's QSR and other regulations. If the FDA were to find that we or certain of our suppliers have failed to comply with applicable regulations, the agency could institute a wide variety of enforcement actions, ranging from a public warning letter to more severe sanctions such as: fines and civil penalties against us, our officers, our employees, or our suppliers; unanticipated expenditures to address or defend such actions; delays in clearing or approving, or refusal to clear or approve, our products; withdrawal or suspension of approval of our products or those of our third-party suppliers by the FDA or other regulatory bodies; product recall or seizure; interruption of production; operating restrictions; injunctions; and criminal prosecution. The FDA also has

the authority to request repair, replacement, or refund of the cost of any medical device manufactured or distributed by us. Any of the foregoing actions could have a material adverse effect on our development of new laboratory tests, business strategy, financial condition, results of operations, or cash flows.

Moreover, governmental authorities outside the U.S. have become increasingly stringent in their regulation of medical devices, and our products may become subject to more rigorous regulation by non-U.S. governmental authorities in the future. U.S. or non-U.S. government regulations may be imposed in the future that may have a material adverse effect on our business and operations. The European Commission ("EC") has harmonized national regulations for the control of medical devices through European Medical Device Directives with which manufacturers must comply. Under these new regulations, manufacturing plants must have received a full Quality Assurance Certification from a "Notified Body" in order to be able to sell products within the member states of the European Union. This Certification allows manufacturers to stamp the products of certified plants with a "CE" mark. Products covered by the EC regulations that do not bear the CE mark cannot be sold or distributed within the European Union. We have received certification for all currently existing manufacturing facilities.

The impact of the Affordable Care Act and other United States healthcare reform legislation on us remains uncertain.

The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act (or collectively the "ACA"), made a number of substantial changes in the way healthcare is financed by both governmental and private insurers. The ACA is far-reaching and is intended to expand access to health insurance coverage, improve quality, and reduce costs over time. Among other things, the ACA:

- establishes a new Patient-Centered Outcomes Research Institute to oversee and identify priorities in comparative clinical effectiveness research in an effort to coordinate and develop such research; and
- implements payment system reforms including a national pilot program on payment bundling to encourage hospitals, physicians, and other providers to improve the coordination, quality, and efficiency of certain healthcare services through bundled payment models.

Certain legislative changes to and regulatory changes under the ACA occurred in the 115th United States Congress. For example, the Tax Cuts and Jobs Act enacted on December 22, 2017, eliminated the shared responsibility payment for individuals who fail to maintain minimum essential coverage under section 5000A of the Internal Revenue Code of 1986, commonly referred to as the individual mandate, beginning in 2019, as well as the tax on generous employer-sponsored employee-sponsored healthcare plans.

In addition, U.S. government agencies continue efforts to modify provisions of the ACA. For example, CMS began permitting states to impose work requirements on persons covered by Medicaid expansion plans; certain federal subsidies to insurers have ended; and certain short-term insurance plans not offering the full array of ACA benefits have been allowed to extend in duration. Some of these changes are being challenged in U.S. courts and so their long-term impact remains uncertain. This changing federal landscape has both positive and negative impacts on the U.S. healthcare industry with much remaining uncertain as to how various provisions of federal law, and potential modification or repeal of these laws, will ultimately affect the industry. Any future changes to the ACA or other such legislation, depending on their nature, could have an adverse effect on our ability to maintain or increase sales of any of our products and achieve profitability.

We are subject to differing customs and import/export rules in several jurisdictions in which we operate.

We import and export our products to and from a number of different countries around the world. These product movements involve subsidiaries and third parties operating in jurisdictions with different customs and import/export rules and regulations. Customs authorities in such jurisdictions may challenge our treatment of customs and import/export rules relating to product shipments under aspects of their respective customs laws and treaties. If we are unsuccessful in defending our treatment of customs and import/export classifications, we may be subject to additional customs duties, fines, or penalties that could adversely affect our profitability.

In addition, changes in U.S. or foreign policies regarding international trade could also negatively impact our business. The enactment of or increases in tariffs, or other such charges, on specific products that we sell or with which our products compete, may have an adverse effect on our business or on our results of operations.

#### Risks Related to our Business and Industry

Our business may be adversely affected if consolidation in the healthcare industry leads to demand for price concessions or if a group purchasing organization or similar entity excludes us from being a supplier.

Because healthcare costs have risen significantly over the past decade, numerous initiatives and reforms have been launched by legislators, regulators, and third-party payors to curb these costs. As a result, there has been a consolidation trend in the healthcare industry to create larger companies, including medical device companies and hospitals, each with greater market power. As the healthcare industry consolidates, competition to provide products and services to industry participants has become and may continue to become more intense. This has resulted and may continue to result in greater pricing pressures and the exclusion of certain suppliers from important markets as group purchasing organizations ("GPOs"), independent delivery networks, and large single accounts continue to use their market power to consolidate purchasing decisions and as larger manufacturers use their broad offerings to secure exclusive arrangements. If a GPO were to exclude us from their supplier list, our net sales could be adversely impacted. We expect that market demand, government regulation, third-party reimbursement policies, and societal pressures will continue to change the worldwide healthcare industry, which may exert further downward pressure on the prices of our products.

The industry in which we operate is highly competitive. New developments by others could make our products or technologies non-competitive or obsolete.

The medical devices industry is highly competitive. We compete with a large number of companies, many of which have significantly greater financial, manufacturing, marketing, distribution, and technical resources than we do. Many of our competitors may be able to develop products and processes competitive with, or superior to, our own. Furthermore, we may not be able to successfully develop or introduce new products that are less costly or offer better performance than those of our competitors, or offer purchasers of our products payment and other commercial terms as favorable as those offered by our competitors. For more information regarding our competitors, see Item 1, "Business," under the subheading "Competition."

In addition, the orthopedic medical device industry in which we compete is undergoing, and is characterized by, rapid and significant technological change. We expect competition to intensify as technological advances are made. New technologies and products developed by other companies are regularly introduced into the market, which may render our products or technologies non-competitive or obsolete.

Our ability to market products successfully depends, in part, upon the acceptance of the products not only by consumers, but also by independent third parties.

Our ability to market our products successfully depends, in part, on the acceptance of the products by independent third parties (including hospitals, physicians, other healthcare providers, and third-party payors) as well as patients. Unanticipated side effects or unfavorable publicity concerning any of our products could have an adverse effect on our ability to maintain hospital approvals or achieve acceptance by prescribing physicians, managed care providers and other retailers, customers, and patients.

Our allograft and mesenchymal stem cell allografts could expose us to certain risks that could disrupt our business.

Our Biologics business markets allograft tissues that are derived from human cadaveric donors, and our ability to market the tissues depends on our supplier continuing to have access to donated human cadaveric tissue, as well as the maintenance of high standards by the supplier in its processing methodology. The supply of such donors is inherently unpredictable and can fluctuate over time. The allograft tissues are regulated under the FDA's HCT/P regulatory paradigm and not as a medical device, biologic, or drug. There can be no assurance that the FDA will not at some future date re-classify the allograft tissues, and the reclassification of this product from a human tissue to a medical device could have adverse consequences for us or for the supplier of this product and make it more difficult or expensive for us to conduct this business by requiring premarket clearance or approval as well as compliance with additional post-market regulatory requirements.

We may not be able to successfully introduce new products to the market, and market opportunities that we expect to develop for our products may not be as large as we expect.

We plan to continue to make improvements in our products, to develop new products, and to introduce our products into new markets. Despite our planning, the process of developing and introducing new products (including product enhancements) is inherently complex and uncertain, and involves risks, including the ability of such new products to satisfy customer needs, gain broad market acceptance (including by physicians), and obtain regulatory approvals. These events can depend on the product

achieving broad clinical acceptance, the level of third-party reimbursement, and the introduction of competing technologies, among other things. In addition, these risks make it inherently difficult to forecast and predict the future net sales of our products. If the market opportunities that we expect to develop for our products, including new products, are not as large as we expect, it could adversely affect our ability to grow our business.

Growing our business requires that we properly educate and train physicians regarding the distinctive characteristics, benefits, safety, clinical efficacy, and cost-effectiveness of our products.

Acceptance of our products depends in part on our ability to (i) educate the medical community as to the distinctive characteristics, benefits, safety, clinical efficacy, and cost-effectiveness of our products compared to alternative products, procedures, and therapies, and (ii) train physicians in the proper use and implementation of our products. This is particularly true in instances of newly launched products or in the introduction of a product into a new market, such as our launch of the M6-C artificial cervical disc within the U.S. We support our sales force and distributors through specialized training workshops in which surgeons and sales specialists participate. We also produce marketing materials, including materials outlining surgical procedures, for our sales force and distributors in a variety of languages using printed, video, and multimedia formats. To provide additional advanced training for surgeons, consistent with the AdvaMed Code and the MedTech Code, we organize regular multilingual teaching seminars in multiple locations. However, we may not be successful in our efforts to educate the medical community and properly train physicians are not properly trained, they may misuse or ineffectively use our products, which may result in unsatisfactory patient outcomes, patient injury, negative publicity, or lawsuits against us. In addition, a failure to educate the medical community regarding our products may impair our ability to achieve market acceptance of our products.

We may be adversely affected by any disruption in our information technology systems, which could adversely affect our cash flows, operating results, and financial condition.

Our operations are dependent upon our information technology systems, which encompass all of our major business functions. We rely upon such information technology systems to manage and replenish inventory, to fill and ship customer orders on a timely basis, to coordinate our sales activities across all of our products and services, and to coordinate our administrative activities. A substantial disruption in our information technology systems for any prolonged time period (arising from, for example, system capacity limits from unexpected increases in our volume of business, outages, or delays in our service) could result in delays in receiving inventory and supplies or filling customer orders and adversely affect our customer service and relationships. Our systems might be damaged or interrupted by natural or man-made events, or by computer viruses, physical or electronic break-ins, and similar disruptions affecting the global Internet. There can be no assurance that such delays, problems, or costs will not have a material adverse effect on our cash flows, operating results, and financial condition.

As our operations grow in both size and scope, we will continuously need to improve and upgrade our systems and infrastructure while maintaining the reliability and integrity of our systems and infrastructure. An expansion of our systems and infrastructure may require us to commit substantial financial, operational, and technical resources before the volume of our business increases, with no assurance that the volume of business will increase. Any such upgrades to our systems and information technology, or new technology, now and in the future, require that our management and resources be diverted from our core business to assist in compliance with those requirements. There can be no assurance that the time and resources our management will need to devote to these upgrades, service outages, or delays due to the installation of any new or upgraded technology (and customer issues therewith), or the impact on the reliability of our data from any new or upgraded technology will not have a material adverse effect on our cash flows, operating results and financial condition.

A significant portion of our operations run on a single Enterprise Resource Planning ("ERP") platform. To manage our international operations efficiently and effectively, we rely heavily on our ERP system, internal electronic information and communications systems, and on systems or support services from third parties. Any of these systems are subject to electrical or telecommunications outages, computer hacking, or other general system failure. It is also possible that future acquisitions will operate on different ERP systems and that we could face difficulties in integrating operational and accounting functions of new acquisitions. Difficulties in upgrading or expanding our ERP system or system-wide or local failures that affect our information processing could adversely affect our cash flows, operating results, and financial condition.

We may be adversely affected by a failure or compromise from a cyberattack or data breach, which could have an adverse effect on our business

We rely on information technology systems to perform our business operations, including processing, transmitting and storing electronic information, and interacting with customers, suppliers, healthcare payors, and other third parties. Like other medical device companies, the size and complexity of our information technology systems makes them vulnerable to a cyber-attack, malicious intrusion, breakdown, destruction, loss of data privacy, or other significant disruption. Our information systems require an ongoing commitment of significant resources to maintain, protect, and enhance existing systems and develop new systems to keep pace with continuing changes in information processing technology, evolving systems and regulatory standards, the increasing need to protect financial or personal information related to patients and customers, and changing customer patterns.

For example, third parties may attempt to hack into our products to obtain data relating to patients or disrupt performance of our products or to access our proprietary information. Any failure by us to maintain or protect our information technology systems and data integrity, including from cyber-attacks, intrusions or other breaches, could result in the unauthorized access to patient data and personally identifiable information, theft of intellectual property or other misappropriation of assets, or otherwise compromise our confidential or proprietary information and disrupt our operations. In the U.S., Federal and State privacy and security laws require certain of our operations to protect the confidentiality of personal information including patient medical records and other health information. In Europe, the Data Protection Directive requires us to manage individually identifiable information in the EU and, the new General Data Protection Regulation may impose fines of up to four percent of our global revenue in the event of violations. Internationally, some countries have also passed laws that require individually identifiable data on their citizens to be maintained on local servers and that may restrict transfer or processing of that data. We believe that we meet the expectations of applicable regulations and that the ongoing costs of compliance with such rules are not material to our business but could become material due to new regulations. There is no guarantee that we will be able to comply with these regulations, or otherwise avoid the negative reputational and other affects that might ensue from a significant data breach or failure to comply with applicable data privacy regulations, each of which could have significant adverse effects on our business, financial condition, or results of operations.

In recent years, companies around the world are seeing a surge in wire transfer "phishing" attacks that attempt to trick employees into wiring money from company bank accounts to criminals' bank accounts. In some cases, companies have lost millions of dollars to such relatively simple attacks, and these funds often are not recovered. While we take efforts to train employees to be cognizant of these types of attacks and take appropriate precautions, the level of technological sophistication being used by attackers has increased in recent years, and a successful attack against us could lead to the loss of significant funds.

We are dependent on third-party manufacturers for many of our products.

We contract with third-party manufacturers to produce many of our products, like many other companies in the medical device industry. If we or any such manufacturer fail to meet production and delivery schedules, it can have an adverse impact on our ability to sell such products. Further, whether we directly manufacture a product or utilize a third-party manufacturer, shortages and spoilage of materials, labor stoppages, product recalls, manufacturing defects and other similar events can delay production and inhibit our ability to bring a new product to market in timely fashion. For example, the supply of the Trinity EUTE and Trinity Evolution allografts are derived from human cadaveric donors, and our ability to market the tissues depends on MTF continuing to have access to donated human cadaveric tissue, as well as, the maintenance of high standards by MTF in its processing methodology.

Termination of our existing relationships with our independent sales representatives or distributors could have an adverse effect on our business.

We sell our products in many countries through independent distributors. Generally, our independent sales representatives and our distributors have the exclusive right to sell our products in their respective territories. The terms of these agreements vary in length, generally from one to ten years. Under the terms of our distribution agreements, each party has the right to terminate in the event of a material breach by the other party and we generally have the right to terminate if the distributor does not meet agreed sales targets or fails to make payments on time. Any termination of our existing relationships with independent sales representatives or distributors could have an adverse effect on our business unless and until commercially acceptable alternative distribution arrangements are put in place. In addition, we operate in areas of the world that have been or may be disproportionately affected by recessions or disasters and we bear risk that existing or future accounts receivable may be uncollected if these distributors or hospitals experience disruptions to their business that cause them to discontinue paying ongoing accounts payable or become insolvent.

We depend on our senior management team.

Our success depends upon the skill, experience, and performance of members of our senior management team, who have been critical to the management of our operations and the implementation of our business strategy. We do not have key man insurance on our senior management team, and the loss of one or more key executive officers could have a material adverse effect on our operations and development. Further, any turnover in our senior management team could adversely affect our operating results and cash flows.

In order to compete, we must attract, retain and motivate key employees, and our failure to do so could have an adverse effect on our results of operations.

In order to compete, we must attract, retain and motivate executives and other key employees, including those in managerial, technical, sales, marketing, research, development, finance, information and technology, and other support positions. Hiring and retaining qualified executives, engineers, technical staff and sales representatives are critical to our business, and competition for experienced employees in the medical device industry can be intense. To attract, retain, and motivate qualified executives and key employees, we utilize stock-based incentive awards, such as employee stock options, restricted stock, and restricted stock units. Certain awards vest based upon the passage of time while others vest upon the achievement of certain performance-based or market-based conditions. If the value of such stock awards does not appreciate as measured by the performance of the price of our common stock and ceases to be viewed as a valuable benefit, our ability to attract, retain, and motivate our employees could be adversely impacted, which could negatively affect our results of operations and/or require us to increase the amount we expend on cash and other forms of compensation.

Our business is subject to economic, political, regulatory and other risks associated with international sales and operations.

Because we sell our products in many different countries, our business is subject to risks associated with conducting business internationally. We anticipate that net sales from international operations will continue to represent a substantial portion of our total net sales. In addition, a number of our manufacturing facilities and suppliers are located outside the U.S. Accordingly, our future results could be harmed by a variety of factors, including:

- changes in a specific country's or region's political or economic conditions;
- · trade protection measures and import or export licensing requirements or other restrictive actions by foreign governments;
- · tariff increases and import or export restrictions
- consequences from changes in tax or customs laws;
- · difficulty in staffing and managing widespread operations;
- differing labor regulations;
- differing protection of intellectual property;
- · unexpected changes in regulatory requirements; and
- · violation by our independent agents of the FCPA or other anti-bribery or anti-corruption laws.

# **Risks Related to our Intellectual Property**

We depend on our ability to protect our intellectual property and proprietary rights, but we may not be able to maintain the confidentiality, or assure the protection, of these assets.

Our success depends, in large part, on our ability to protect our current and future technologies and products and to defend our intellectual property rights. If we fail to protect our intellectual property adequately, competitors may manufacture and market products similar to, or that compete directly with, ours. Numerous patents covering our technologies have been issued to us, and we have filed, and expect to continue to file, patent applications seeking to protect newly developed technologies and products in various countries, including the U.S. Some patent applications in the U.S. are maintained in secrecy until the patent is issued. Because the publication of discoveries tends to follow their actual discovery by several months, we may not be the first to invent, or file patent applications on any of our discoveries. Patents may not be issued with respect to any of our patent applications and existing or future patents issued to, or licensed by, us and may not provide adequate protection or competitive advantages for our products. Patents that are issued may be challenged, invalidated, or circumvented by our competitors. Furthermore, our patent

rights may not prevent our competitors from developing, using, or commercializing products that are similar or functionally equivalent to our products.

We also rely on trade secrets, unpatented proprietary expertise, and continuing technological innovation that we protect, in part, by entering into confidentiality agreements with assignors, licensees, suppliers, employees, and consultants. These agreements may be breached and there may not be adequate remedies in the event of a breach. Disputes may arise concerning the ownership of intellectual property or the applicability or enforceability of confidentiality agreements. Moreover, our trade secrets and proprietary technology may otherwise become known or be independently developed by our competitors. If patents are not issued with respect to our products arising from research, we may not be able to maintain the confidentiality of information relating to these products. In addition, if a patent relating to any of our products lapses or is invalidated, we may experience greater competition arising from new market entrants.

Third parties may claim that we infringe on their proprietary rights and may prevent us from manufacturing and selling certain of our products.

There has been substantial litigation in the medical device industry with respect to the manufacture, use, and sale of new products. These lawsuits relate to the validity and infringement of patents or proprietary rights of third parties. We may be required to defend against allegations relating to the infringement of patent or proprietary rights of third parties. Any such litigation could, among other things:

- require us to incur substantial expense, even if we are successful in the litigation;
- require us to divert significant time and effort of our technical and management personnel;
- result in the loss of our rights to develop or make certain products; and
- require us to pay substantial monetary damages or royalties in order to license proprietary rights from third parties or to satisfy judgments or to settle
  actual or threatened litigation.

Although patent and intellectual property disputes within the orthopedic medical devices industry have often been settled through assignments, licensing, or similar arrangements, costs associated with these arrangements may be substantial and could include the long-term payment of royalties. Furthermore, the required assignments or licenses may not be made available to us on acceptable terms. Accordingly, an adverse determination in a judicial or administrative proceeding or a failure to obtain necessary assignments or licenses could prevent us from manufacturing and selling some products or increase our costs to market these products.

#### **Risks Related to Litigation and Product Liability Matters**

We may be subject to product and other liability claims that may not be covered by insurance and could require us to pay substantial sums. Moreover, fluctuations in insurance expense could adversely affect our profitability.

We are subject to an inherent risk of, and adverse publicity associated with, product liability and other liability claims, whether or not such claims are valid. We maintain product liability insurance coverage in amounts and scope that we believe are reasonable and adequate. There can be no assurance, however, that product liability or other claims will not exceed our insurance coverage limits or that such insurance will continue to be available on reasonable, commercially acceptable terms, or at all. A successful product liability claim that exceeds our insurance coverage limits could require us to pay substantial sums and could have a material adverse effect on our financial condition.

In addition to product liability insurance coverage, we hold a number of other insurance policies, including directors' and officers' liability insurance, property insurance, and workers' compensation insurance. If the costs of maintaining adequate insurance coverage should increase significantly in the future, our operating results could be materially adversely impacted.

#### **Risks Related to Potential Acquisitions and Divestitures**

Our efforts to identify, pursue, and implement new business opportunities (including acquisitions) may be unsuccessful and may have an adverse effect on our business.

Our growth depends, in large part, on our ability to identify, pursue, and implement new business opportunities that expand our product offerings, capabilities, and geographic presence, and we compete with other medical device companies for these opportunities. Our efforts to identify such opportunities focus primarily on potential acquisitions of new businesses, products or

technologies, licensing arrangements, commercialization arrangements, and other transactions with third parties. We may not be able to identify business opportunities that meet our strategic criteria or are acceptable to us or our shareholders. Even if we are able to identify acceptable business opportunities, we may not be able to pursue or implement such business opportunities (or, in the case of acquisitions or other transactions, complete such acquisitions or other transactions) in a timely manner or on a cost-effective basis (or at all), and we may not realize the expected benefits of such business opportunities. If we are not able to identify, pursue, and implement new business opportunities, it will adversely affect our ability to grow our business.

In addition, pursuing and implementing new business opportunities (particularly acquisitions) may involve significant costs and entail risks, uncertainties and disruptions to our business, especially where we have limited experience as a company developing or marketing a particular product or technology or operating in a particular geographic region. We may be unable to integrate a new business, product, or technology effectively, or we may incur significant charges related to an acquisition or other business opportunity (for example, amortization of acquired assets or asset impairment charges), which may adversely affect our business, financial condition, and results of operations. Newly acquired technology or products may require additional development efforts prior to commercial sale, including clinical testing and approval by the FDA and applicable foreign regulatory authorities; such additional development efforts may involve significant expense and ultimately be unsuccessful. Any cross-border acquisitions or transactions may involve unique risks in addition to those mentioned above, including those related to integration of operations across different cultures and languages, currency risks, and the particular economic, political and regulatory risks associated with specific countries. To the extent we issue additional equity in connection with acquisitions, this may dilute our existing shareholders.

We may incur significant costs or retain liabilities associated with disposition activity.

We may from time to time sell, license, assign or otherwise dispose of or divest assets, the stock of subsidiaries or individual products, product lines or technologies, which we determine are no longer desirable for us to own, some of which may be material. Any such activity could result in us incurring costs and expenses from these efforts, some of which could be significant, as well as retaining liabilities related to the assets or properties disposed of even though, for instance, the incomegenerating assets have been disposed of. These costs and expenses may be incurred at any time and may have a material impact on our results of operations.

#### Risks Related to Our Financial Results and Need for Financing

Our quarterly operating results may fluctuate.

Our quarterly operating results have fluctuated significantly in the past. Our future quarterly operating results may fluctuate significantly, and we may experience losses depending on a number of factors, including the extent to which our products continue to gain or maintain market acceptance, the rate and size of expenditures incurred as we expand our domestic and establish our international sales and distribution networks, the timing and level of reimbursement for our products by third-party payors, the extent to which we are subject to government regulation or enforcement, the valuation of certain assets and liabilities, and other factors, many of which are outside our control.

We face risks related to foreign currency exchange rates.

Because some of our revenue, operating expenses, assets and liabilities are denominated in foreign currencies, we are subject to foreign exchange risks that could adversely affect our operations and reported results. To the extent that we incur expenses or earn revenue in currencies other than the U.S. Dollar, any change in the values of those foreign currencies relative to the U.S. Dollar could cause our profits to decrease or our products to be less competitive against those of our competitors. To the extent that our current assets denominated in foreign currency are greater or less than our current liabilities denominated in foreign currencies, we have potential foreign exchange exposure. The fluctuations of foreign exchange rates during 2019 have had an unfavorable impact of \$4.7 million on net sales outside of the U.S. Although we seek to manage our foreign currency exposure by matching non-dollar revenues and expenses, exchange rate fluctuations could have a material adverse effect on our results of operations in the future. To minimize such exposures, we may enter into currency hedges from time to time.

Our global operations may expose us to tax risks

We are subject to taxes in the U.S. and numerous foreign jurisdictions. Significant judgment and interpretation of tax laws are required to estimate our tax liabilities. Tax laws and rates in various jurisdictions may be subject to significant change as a result of political and economic conditions. Our effective income tax rate could be adversely affected by changes in those tax laws; changes in

the mix of earnings among tax jurisdictions; changes in the valuation of our deferred tax assets and liabilities; and the resolution of matters arising from tax audits.

Certain of our subsidiaries sell products directly to other Orthofix subsidiaries or provide marketing and support services to other Orthofix subsidiaries. These intercompany sales and support services involve subsidiaries operating in jurisdictions with differing tax rates, and we must determine the appropriate allocation of income to each jurisdiction based on current interpretations of complex income tax regulations. Tax authorities in these jurisdictions may challenge our treatment of such intercompany transactions. If we are unsuccessful in defending our treatment of intercompany transactions, we may be subject to additional tax liability, interest, or penalty, which could adversely affect our profitability.

We maintain a \$300 million secured revolving credit facility secured by a pledge of substantially all of our property.

On October 25, 2019, we and certain of our wholly-owned subsidiaries (collectively, the "Borrowers") entered into a Second Amended and Restated Credit Agreement (the "Amended Credit Agreement"). The Amended Credit Agreement provides for a \$300 million secured revolving credit facility maturing on October 25, 2024, and amends and restates the previous \$125 million secured revolving credit facility. No amounts have been drawn on the credit facility as of the date hereof, but the Company may draw on this facility in the future.

Certain of our subsidiaries (collectively, the "Guarantors") are required to guarantee the repayment of any obligations under the Amended Credit Agreement. The obligations with respect to the Amended Credit Agreement are secured by a pledge of substantially all of the personal property assets of the Borrowers and each of the Guarantors, including accounts receivables, deposit accounts, intellectual property, investment property, inventory, equipment and equity interests in their respective subsidiaries.

The Amended Credit Agreement contains customary affirmative and negative covenants, including limitations on our ability to incur additional debt, grant or permit additional liens, make investments and acquisitions, merge or consolidate with others, dispose of assets, pay dividends and distributions, pay subordinated indebtedness, and enter into affiliate transactions. In addition, the Amended Credit Agreement contains financial covenants requiring us to maintain, on a consolidated basis as of the last day of any fiscal quarter, a total net leverage ratio of not more than 3.5 to 1.0 (which ratio can be permitted to increase to 4.0 to 1.0 for no more than 4 fiscal quarters following a material acquisition) and an interest coverage ratio of at least 3.0 to 1.0. The Amended Credit Agreement also includes events of default customary for facilities of this type and upon the occurrence of such events of default, subject to customary cure rights, all outstanding loans under the Facility may be accelerated and/or the lenders' commitments terminated.

We believe that we are in compliance with the covenants, and there were no events of default, at December 31, 2019 (and in prior periods). However, there can be no assurance that we will be able to meet such financial covenants in future fiscal quarters. The failure to do so could result in an event of default under such agreement, which could have a material adverse effect on our financial position in the event that we have significant amounts drawn under the facility at such time.

#### Item 1B. Unresolved Staff Comments

None.

# Item 2. Properties

Our principal facilities as of December 31, 2019 are as follows:

		Approx. Square	
Facility	Location	Feet	Ownership
Manufacturing, warehousing, distribution, research and development, and			
administrative facility for Corporate and all reporting segments	Lewisville, TX	140,000	Leased
Manufacturing, warehousing, distribution, research and development, and			
administrative facility for motion preservation	Sunnyvale, CA	25,000	Leased
Research and development, component manufacturing, quality control and			
training facility for fixation products and sales management, distribution			
and administrative facility for Italy	Verona, Italy	38,000	Owned
International distribution center for Orthofix products	Verona, Italy	18,000	Leased
Mechanical workshop for Orthofix products	Verona, Italy	9,000	Leased
Sales management, distribution and administrative facility for United Kingdom	Maidenhead, England	5,580	Leased
Sales management, distribution and administrative facility for Brazil	São Paulo, Brazil	22,000	Leased
Sales management, distribution and administrative facility for France	Arcueil, France	8,500	Leased
Sales management, distribution and administrative facility for Germany	Ottobrunn, Germany	18,300	Leased

# Item 3. Legal Proceedings

For a description of our material pending legal proceedings, refer to Note 12 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

# <u>Item 4</u>. <u>Mine Safety Disclosures</u>

Not applicable.

#### **PART II**

# Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

#### Market for Our Common Stock

Our common stock is traded on the Nasdaq Global Select Market under the symbol "OFIX." As of February 20, 2020, we had 318 holders of record of our common stock. The closing price of our common stock on February 20, 2020 was \$45.36. The following table shows the high and low sales prices for our common stock for each of the two most recent fiscal years.

	High		Low
2018			
First Quarter	\$	61.00	\$ 51.01
Second Quarter		61.86	51.38
Third Quarter		61.98	50.41
Fourth Quarter		63.57	48.00
2019			
First Quarter	\$	74.44	\$ 47.79
Second Quarter		57.85	48.02
Third Quarter		55.17	48.77
Fourth Quarter		54.02	39.75

#### **Dividends**

We have not paid dividends to holders of our common stock in the past and have no present intention to pay dividends in the foreseeable future. Additionally, we have restrictions on the ability to pay dividends in certain circumstances pursuant to our Amended Credit Agreement. We currently intend to retain all of our consolidated earnings to finance the continued growth of our business.

In the event that we decide to pay a dividend to holders of our common stock in the future with dividends received from our subsidiaries, we may, based on prevailing rates of taxation, be required to pay additional withholding and income tax on such amounts.

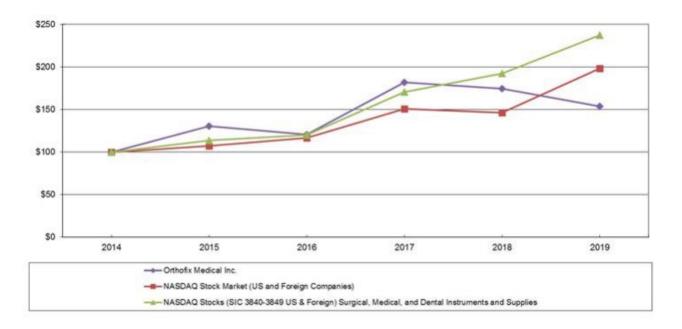
# **Recent Sales of Unregistered Securities**

We did not sell any unregistered securities during the fourth quarter of 2019.

# **Performance Graph**

The following performance graph is not deemed to be "soliciting material" or to be "filed" with the SEC or subject to Regulation 14A or 14C or to the liabilities of Section 18 of the Exchange Act. This information will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Exchange Act, except to the extent we specifically incorporate this information by reference.

The graph below compares the five-year total shareholder return on Orthofix common stock with the returns of two indexes: the Nasdaq Stock Market and Nasdaq stocks for surgical, medical, and dental instruments and supplies. The graph assumes that you invested \$100 in Orthofix Common Stock and in each of the indexes on December 31, 2014. Points on the graph represent the performance as of the last business day of each of the years indicated.



# Item 6. Selected Financial Data

The following selected financial data has been derived from our audited consolidated financial statements.

	Year ended December 31,									
(U.S. Dollars, in thousands, except margin and per share data)		2019		2018		2017		2016		2015
Consolidated operating results										
Net sales	\$	459,955	\$	453,042	\$	433,823	\$	409,788	\$	396,489
Gross profit		359,348		356,414		340,786		321,935		309,964
Gross margin		78%		79%	•	79%		79%		78%
Operating income (loss) (1)		(18,784)		30,094		40,811		21,067		9,225
Net income (loss) from continuing operations		(28,462)		13,811		7,291		3,497		(2,342)
Net loss from discontinued operations		_		_		(1,068)		(441)		(467)
Net income (loss) (2)	\$	(28,462)	\$	13,811	\$	6,223	\$	3,056	\$	(2,809)
Net income (loss) per common share – basic										
Net income (loss) from continuing operations	\$	(1.51)	\$	0.73	\$	0.40	\$	0.19	\$	(0.12)
Net loss from discontinued operations		-		-		(0.06)		(0.02)		(0.03)
Net income (loss)	\$	(1.51)	\$	0.73	\$	0.34	\$	0.17	\$	(0.15)
Net income (loss) per common share – diluted										
Net income (loss) from continuing operations	\$	(1.51)	\$	0.72	\$	0.39	\$	0.19	\$	(0.12)
Net loss from discontinued operations		_		_		(0.05)		(0.02)		(0.03)
Net income (loss)	\$	(1.51)	\$	0.72	\$	0.34	\$	0.17	\$	(0.15)

# (1) Includes the following:

- Legal, accounting, and other professional fees incurred in 2019, 2018, 2017, 2016, and 2015 of \$0.2 million, \$1.1 million, \$3.4 million, \$2.0 million, and \$9.1 million, respectively, in connection with the accounting review and restatements (incurred through March 2015) and legal fees associated with the SEC Investigation, a related securities class action complaint and Brazil subsidiary compliance review. In addition, the Company received an insurance settlement related to these matters of approximately \$6.1 million in 2017
- Charges related to U.S. Government resolutions in 2016 of \$14.4 million

# (2) Dividends have not been paid in any of the years presented

	As of December 31,									
(U.S. Dollars, in thousands)		2019		2018		2017		2016		2015
Consolidated financial position										
Total assets	\$	495,620	\$	466,641	\$	405,354	\$	372,103	\$	400,222
Long-term debt		_		_		_		_		_
Shareholders' equity		327,631		335,397		296,608		263,477		290,311

# <u>Item 7.</u> <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u>

The following discussion and analysis of our financial condition and result of operations should be read in conjunction with "Forward-Looking Statements" and our consolidated financial statements and notes thereto appearing elsewhere in this Annual Report. The discussion and analysis below is focused on our 2019 and 2018 financial results, including comparisons of our year-over-year performance between these years. Discussion and analysis of our 2017 fiscal year specifically, as well as the year-over-year comparison of our 2018 financial performance to 2017, is located in Part II, Item 7 – Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018, filed with the SEC on February 25, 2019, which is available on our website at www.orthofix.com and the SEC's website at www.sec.gov.

#### **Executive Summary**

We are a global medical device company focused on musculoskeletal products and therapies. Headquartered in Lewisville, Texas, we have two reporting segments: Global Spine and Global Extremities. Our products are distributed by our sales representatives and distributors in more than 70 countries.

Notable highlights and accomplishments in 2019 include the following:

- Net sales were \$460.0 million, an increase of 1.5% on a reported basis and 2.5% on a constant currency basis
- Increase in Biologics net sales of 9.7% compared to the prior year, as we believe we now have the #1 market-share position within the U.S. Cellular Allogaft segment per SmartTRAK following the product category's strong performance in 2019
- Net loss was \$28.5 million, a decrease \$42.3 million from the prior year, primarily driven by increases in acquisition-related amortization and remeasurement and sales and marketing expenses
- Obtained approval in February 2019 from the U.S. Food and Drug Administration ("FDA") for our M6-C artificial cervical disc acquired from Spinal Kinetics, Inc. ("Spinal Kinetics") and achieved \$4.1 million in net sales in the U.S. following approval
- · Changed our reporting segments to Global Spine and Global Extremities to optimize our structure and better serve our surgeon customers
- Successful transition of Chief Executive Officer and Global Spine President positions

#### **Results of Operations**

The following table presents certain items in our consolidated statements of operations as a percent of net sales:

	Ye	Year ended December 31,					
	2019 (%)	2018 (%)	2017 (%)				
Net sales	100.0	100.0	100.0				
Cost of sales	21.9	21.3	21.4				
Gross profit	78.1	78.7	78.6				
Sales and marketing	48.6	45.4	45.7				
General and administrative	18.6	18.4	16.6				
Research and development	7.5	7.3	6.9				
Acquisiton-related amortization and remeasurement	7.5	1.0	_				
Operating income (loss)	(4.1)	6.6	9.4				
Net income (loss) from continuing operations	(6.2)	3.0	1.7				
Net loss from discontinued operations	_	_	(0.3)				
Net income (loss)	(6.2)	3.0	1.4				

#### **Net Sales by Reporting Segment**

The following table provides net sales by major product category by reporting segment:

				Percentage Change			
				2019/2018	2019/2018	2018/2017	2018/2017
(U.S. Dollars, in thousands)	2019	2018	2017	Reported	Constant Currency	Reported	Constant Currency
Bone Growth Therapies	\$ 197,181	\$ 195,252	\$ 185,900	1.0%	1.0%	5.0%	5.0%
Spinal Implants	94,544	91,658	81,957	3.1%	3.8%	11.8%	11.9%
Biologics	65,496	59,684	62,724	9.7%	9.7%	-4.8%	-4.8%
Global Spine	357,221	346,594	330,581	3.1%	3.2%	4.8%	4.9%
Global Extremities	102,734	106,448	103,242	-3.5%	0.3%	3.1%	0.9%
Net sales	\$ 459,955	\$ 453,042	\$ 433,823	1.5%	2.6%	4.4%	3.9%

### Global Spine

Global Spine offers the following products categories:

- Bone Growth Therapies, which manufactures, distributes, sells, and provides support services for market leading devices that enhance bone fusion. Bone Growth Therapies uses distributors and sales representatives to sell its devices and provide associated services to hospitals, healthcare providers, and patients.
- Spinal Implants, which designs, develops and markets a broad portfolio of motion preservation and fixation implant products used in surgical procedures of the spine. Spinal Implants distributes its products globally through a network of distributors and sales representatives to sell spine products to hospitals and healthcare providers.
- Biologics, which provides a portfolio of regenerative products and tissue forms that allow physicians to successfully treat a variety of spinal and orthopedic conditions. Biologics markets its tissues to hospitals and healthcare providers, primarily in the U.S., through a network of employed and independent sales representatives.

#### 2019 Compared to 2018

Net sales increased \$10.6 million or 3.1%

- Bone Growth Therapies net sales increased \$1.9 million or 1.0%, primarily driven by a 2.8% increase in order volume during the year, partially offset by customer sales mix and product mix changes
- Spinal Implants net sales increased \$2.9 million or 3.1%, primarily driven by an increase of \$7.6 million in motion preservation net sales, which includes a full 12 months of sales in 2019 as compared to only eight months in the prior year due to the acquisition of Spinal Kinetics in 2018 and our launch into the U.S. market in April 2019 following FDA approval for the M6-C artificial cervical disc; this increase was partially offset by a decrease in legacy Spine Fixation sales of \$4.7 million, primarily resulting from disruptions in our U.S. distribution channel as we upgrade our legacy sales force with new, high-potential sales partners
- Biologics net sales increased \$5.8 million or 9.7%, primarily due to distribution added during the last year as volume increased related to Trinity tissues by 12.4%, partially offset by a low single-digit price decline as well as a contractual reduction in the marketing services fee we receive from MTF Biologics, which became effective during the first quarter of 2018

# Global Extremities

Global Extremities offers products and solutions that allow physicians to successfully treat a variety of orthopedic conditions unrelated to the spine. Global Extremities distributes its products globally through a network of distributors and sales representatives to sell orthopedic products to hospitals and healthcare providers.

### 2019 Compared to 2018

Net sales decreased \$3.7 million, or 3.5%

- · Decrease of \$4.1 due to the changes in foreign currency exchange rates, which had a negative impact on net sales
- Increase of \$0.4 largely attributed to variability in the timing of orders from our international stocking distributors and growth in our global direct-sales markets

#### **Gross Profit**

					Percentage Change			
(U.S. Dollars, in thousands)	2019		2018	2017	2019/2018	2018/2017		
Net sales	\$ 459,955	\$	453,042	\$ 433,823	1.5%	4.4%		
Cost of sales	100,607		96,628	93,037	4.1%	3.9%		
Gross profit	\$ 359,348	\$	356,414	\$ 340,786	0.8%	4.6%		
Gross margin	78.1%	<u> </u>	78.7%	78.6%	-0.6%	0.1%		

#### 2019 Compared to 2018

Gross profit increased \$2.9 million, or 0.8%

- Primarily due to the growth in net sales, partially offset by gross margin decreasing from 78.7% in 2018 to 78.1% in 2019
- Increase of \$0.7 million attributable to a decrease in acquisition-related inventory fair market value adjustments for Spinal Kinetics

## Sales and Marketing Expense

						Percentag	ge Change
(U.S. Dollars, in thousands)	2019		2018		2017	2019/2018	2018/2017
Sales and marketing	\$ 223,676	\$	\$ 205,527		198,370	8.8%	3.6%
As a percentage of net sales	48.6%	45.4% 45.7%		3.2%	-0.3%		

## 2019 Compared to 2018

Sales and marketing expense increased \$18.1 million

- Increase largely attributable to increases in headcount, training, and education costs, and increased marketing efforts to support growth and the launch of the M6-C artificial cervical disc in the U.S.
- · Further increases relate to higher variable compensation rates in our Global Spine segment to support growth

## **General and Administrative Expense**

						Percentage Change			
(U.S. Dollars, in thousands)	2019		2018		2017	2019/2018	2018/2017		
General and administrative	\$ 85,607	\$	83,251	\$	71,905	2.8%	15.8%		
As a percentage of net sales	18.6%	18.4% 16.6%		0.2%	1.8%				

## 2019 Compared to 2018

General and administrative expense increased \$2.4 million

• Increase of \$9.9 million attributable to succession and transition charges, including acceleration of certain share-based compensation expense, relating to the reitrment, transition, or termination of certain named executive officers and from targeted restructuring activities

- Partially offset by a decrease of \$3.9 million associated with strategic investments, largely due to diligence and integration costs related to the acquisition
  of Spinal Kinetics and expenses associated with our change in jurisdiction of organization from Curação to the State of Delaware (the "Domestication") in
  2018
- Further offset by a decrease of \$4.1 million in certain compensation expenses, such as share-based compensation expense, excluding the impact of succession and transition charges

## Research and Development Expense

				Percent	age Change
(U.S. Dollars, in thousands)	2019	2018	2017	2019/2018	2018/2017
Research and development	\$ 34,637	\$ 33,218	\$ 29,700	4.3%	11.8%
As a percentage of net sales	7.5%	7.3%	6.9%	0.2%	0.4%

#### 2019 Compared to 2018

Research and development expense increased \$1.4 million

- Increase largely attributable to the Spinal Kinetics acquisition and the regulatory efforts associated with the FDA premarket approval of the M6 artificial cervical disc, which was obtained in February of 2019
- · Increase of \$1.0 million related to costs to comply with recent medical device reporting regulations in the European Union

#### Acquisition-related Amortization and Remeasurement

						Percent	age Change
(U.S. Dollars, in thousands)	2019		2018		2017	2019/2018	2018/2017
Acquisition-related amortization and remeasurement	\$ 34,212	\$	4,324	\$	_	691.2%	100.0%
As a percentage of net sales	7.5%	7.5% 1.0%		6 0.0%		6.5%	1.0%

#### 2019 Compared to 2018

Acquisition-related amortization and remeasurement increased \$29.9 million

- Increase of \$26.1 million related to the remeasurement of contingent milestone payments associated with the Spinal Kinetics acquisition that become due upon the achievement of certain revenue targets and upon FDA approval of the M6-C artificial certvical disc, which occurred in the first quarter of 2019
- The fair value associated with the contingent revenue-based milestones increased significantly in 2019, largely attributable to the initial success observed in the launch of the M6-C artificial cervical disc in the U.S. market, as our long-term forecasts of net sales now indicate a greater likelihood of achieving the contingent revenue-based milestones
- Increase of \$3.8 million related to the amortization of intangible assets acquired through business combinations or asset acquisitions; of this amount, \$2.9 million of the increase is attributable to the Spinal Kinetics acquisition, which includes amortization of acquired in-process research and development costs following the achievement of the FDA milestone

## **Non-operating Expense**

						Percentage Change			
(U.S. Dollars, in thousands)	2019 2018		2017		2019/2018	2018/2017			
Interest expense, net	\$ (122)	\$	(828)	\$	(416)	-85.3%	99.0%		
Other expense, net	(8,143)		(6,381)		(4,004)	27.6%	59.4%		

Non-operating income and expense largely consists of interest income and expense, transaction gains and losses from changes in foreign currency exchange rates, changes in fair value related to our equity holdings in Bone Biologics, Inc. ("Bone Biologics"), and other-than-temporary impairments on the debt security of eNeura, Inc. ("eNeura") that was settled on Octber 25, 2019. Foreign exchange gains and losses are primarily a result of several of our foreign subsidiaries holding trade and intercompany payables or receivables in currencies (most notably the U.S. Dollar) other than their functional currency.

#### 2019 Compared to 2018

Other expense, net, increased \$1.8 million

- · Increase of \$6.5 million associated with an other-than-temporary impairment of the eNeura debt security, which was settled in 2019
- Partially offset by a net decrease of \$3.1 million relating to impairment and changes in fair value of our equity holdings and warrants in Bone Biologics during 2018 that did not recur in 2019
- Partially offset by an decrease of \$1.9 million associated with changes in foreign currency rates, as we recorded a non-cash remeasurement loss of \$1.4 million in 2019 compared to a loss of \$3.3 million in 2018

#### **Income Taxes**

						Percentage Change			
(U.S. Dollars, in thousands)	2019 2018		2017		2019/2018	2018/2017			
Income tax expense	\$ 1,413	\$ 9,074 \$ 29,100		29,100	-84.4%	-68.8%			
Effective tax rate	-5.2%	39.7% 80.0%		-44.9%	-40.3%				

#### 2019 Effective Tax Rate

The decrease in the effective tax rate during the year was primarily a result of the decrease in income before income taxes, full year benefit of our Domestication completed in 2018, and statute expirations and effective settlement of uncertain tax positions, offset by non-deductible executive compensation and non-deductible increase in contingent consideration. The primary factors affecting our tax rate for 2019 are as follows:

- · Non-deductible increases in the fair value of contingent consideration
- Statute expirations and effective settlement of uncertain tax positions
- Executive compensation that is not deductible as a result of the Tax Act
- State taxes and foreign income taxed at differing rates

#### 2018 Effective Tax Rate

The decrease in the effective tax rate during the year was primarily a result of the decrease in income before income taxes, the reduction of the US statutory tax rate from 35% to 21%, and the 2017 charge from recording the impact of the Tax Cuts and Jobs Act (the "Tax Act") that did not recur in 2018. The primary factors affecting our tax rate for 2018 are as follows:

- Current period losses in jurisdictions where we do not currently receive a tax benefit
- State taxes and foreign income taxed at differing rates
- Benefits of deductible equity compensation in excess of financial statement impact

#### Segment Review

In conjunction with our change in reporting segments in 2019, we also changed the performance measure used to evaluate segment performance from Non-GAAP net margin, an internal metric that we defined as gross profit less sales and marketing expense, to EBITDA. When compared to the prior year, EBITDA decreased \$44.6 million, largely driven by the fluctuations discussed above, but primarily attributable to changes in acquisition-related amortization and remeasurement and sales and marketing expense.

The following table reconciles EBITDA to income (loss) before income taxes:

	Year Ended December 31,										
(U.S. Dollars, in thousands)	2019		2018		2017						
Global Spine	\$ 39,528	\$	76,545	\$	84,034						
Global Extremities	7,496		9,453		7,143						
Corporate	(49,252)		(43,626)		(34,246)						
Total EBITDA	(2,228)		42,372		56,931						
Depreciation and amortization	(24,699)		(18,659)		(20,124)						
Interest expense, net	(122)		(828)		(416)						
Income (loss) before income taxes	\$ (27,049)	\$	22,885	\$	36,391						

## **Liquidity and Capital Resources**

Cash, cash equivalents, and restricted cash at December 31, 2019 was \$70.4 million compared to \$72.2 million at December 31, 2018.

	Year Ended D			
(U.S. Dollars, in thousands)	2019	2018		Change
Net cash from operating activities	\$ 32,033	\$	49,918	\$ (17,885)
Net cash from investing activities	(22,924)		(60,998)	38,074
Net cash from financing activities	(10,688)		2,993	(13,681)
Effect of exchange rate changes on cash and restricted cash	(207)		(881)	674
Net change in cash, cash equivalents, and restricted cash	\$ (1,786)	\$	(8,968)	\$ 7,182

The following table presents free cash flow, a non-GAAP financial measure, which is calculated by subtracting capital expenditures from net cash from operating activities.

	Year Ended December, 31,							
(U.S. Dollars, in thousands)	2019		2018		Change			
Net cash from operating activities	\$ 32,033	\$	49,918	\$	(17,885)			
Capital expenditures	(20,524)		(15,256)		(5,268)			
Free cash flow	\$ 11,509	\$	34,662	\$	(23,153)			

#### **Operating Activities**

Cash flows from operating activities decreased \$17.9 million

- Decrease in net income of \$42.3 million
- Net increase of \$46.8 million for non-cash gains and losses, primarily related to changes in fair value of contingent consideration, depreciation and amortization, share-based compensation expense, and deferred income taxes
- · Net decrease of \$22.4 million relating to changes in working capital, primarily attributable to changes in inventories and trade accounts receivable

Two of our primary working capital accounts are trade accounts receivable and inventory. Day's sales in receivables were 66 days at December 31, 2019 compared to 59 days at December 31, 2018, largely due to a delay in payment from certain third party payors. Inventory turns were 1.2 times as of December 31, 2019 compared to 1.3 times at December 31, 2018, primarily resulting from increases in inventory and instruments in 2019 to support certain product launches.

## **Investing Activities**

Cash flows from investing activities increased \$38.1 million

- · Increase of \$44.3 million associated with cash paid in relation to the Spinal Kinetics acquisition in 2018, net of cash acquired
- Increase of \$4.0 million related to the settlement of the eNeura debt security in 2019

- Increase of \$0.9 million associated with the acquisition of certain intangible assets in transactions with former distributors and from our additional investment of \$0.5 million in Bone Biologics in 2018
- Partially offset by \$6.4 million associated with cash paid in relation to the acquisition of certain assets of Options Medical LLC, one of our former distributors, in 2019
- Further offset by an increase in capital expenditures of \$5.3 million compared to the prior year, largely relating to the buildup of instruments to support new product launches, such as our launch of the M6-C artificial cervical disc in the U.S.

#### **Financing Activities**

Cash flows from financing activities decreased \$13.7 million

- Decrease of \$13.7 million associated with our payment of the FDA Milestone associated with the Spinal Kinetics acquisition in 2019, which represents the acquisition-date fair value attributable to the FDA Milestone liability originally recognized
- Decrease of \$1.4 million associated with debt issuance costs, largely attributable to costs incurred in 2019 associated with our Second Amended and Restated Credit Agreement (the "Amended Credit Agreement")
- Decrease of \$0.4 million attributable to principal payments made in 2019 relating to our finance lease and \$0.9 million attributable to other financing
  cash flows, which primarily relate to deferred payments made in association with the acquisition of certain intangible assets in transactions with former
  distributors
- · Partially offset by an increase in net proceeds of \$2.7 million from the issuance of common shares

#### Credit Facilities

On October 25, 2019, we entered into a Second Amended and Restated Credit Agreement (the "Amended Credit Agreement"), which provides for a five year \$300 million secured revolving credit facility. The Amended Credit Agreement has a maturity date of October 25, 2024, and amends and restates the previous \$125 million secured revolving credit facility.

Borrowings under the Amended Credit Agreement may be used for, among other things, working capital and other general corporate purposes (including share repurchases, permitted acquisitions and permitted payments of dividends and other distributions). As of December 31, 2019, we have not made any borrowings under the Amended Credit Agreement. For additional information regarding the credit facility, see Note 10 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

We had no borrowings and an unused available line of credit of €5.5 million (\$6.2 million and \$6.3 million) at December 31, 2019 and 2018, respectively, on our Italian line of credit. This unsecured line of credit provides us the option to borrow amounts in Italy at rates which are determined at the time of borrowing.

#### Other

For information regarding Contingencies, see Note 12 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

Spinal Kinetics Acquisition and Contingent Consideration

As part of the consideration for the Spinal Kinetics acquisition, we agreed to milestone payments in the future of up to \$60.0 million in cash. One milestone payment was for \$15.0 million upon FDA approval of Spinal Kinetics' M6-C artificial cervical disc (the "FDA Milestone"). During the first quarter of 2019, we obtained FDA approval of the M6-C artificial cervical disc for patients suffering from cervical disease degeneration and the FDA Milestone payment was triggered. We paid the \$15.0 million FDA Milestone payment on February 14, 2019 from cash on hand.

The remaining two milestones are comprised of revenue-based milestone payments of up to \$45.0 million in connection with future sales of the M6-C artificial cervical disc and the M6-L artificial lumbar disc. The fair value of the contingent consideration arrangement as of December 31, 2019 was \$42.7 million; however, the actual amount ultimately paid could be higher or lower than the fair value of the contingent consideration. At December 31, 2019, we classified \$14.7 million of the liability attributable to the revenue-based milestones within other current liabilities, as we expect to pay one of the revenue-based milestones in the next twelve months, and the remaining \$28.0 million within other long-term liabilities. For additional discussion of this matter, see Note 12 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

#### FITBONE Asset Acquisition

On February 3, 2020, we entered into an Asset Purchase Agreement (the "Purchase Agreement") with Wittenstein SE ("Wittenstein"), a privately-held German-based company, to acquire assets associated with the FITBONE intramedullary lengthening system for limb lengthening of the femur and tibia bones. Under the terms of the Purchase Agreement, as consideration for the acquired assets, we will pay \$18 million in cash consideration and will enter into manufacturing supply contract with Wittenstein.

The acquisition is anticipated to close by the end of the first quarter of 2020, subject to customary closing conditions.

#### **Debt Security**

Until October of 2019, we held a debt security of eNeura, a privately held medical technology company that is developing devices for the treatment of migraines. The debt security was originally set to mature on March 4, 2019. On March 1, 2019, we entered into an Amended and Restated Senior Secured Promissory Note with eNeura (the "Restructured Debt Security") to restructure the debt security, which extended the maturity date to the earlier of (i) March 4, 2022, (ii) the effective date of a change in control, or (iii) the effective date of an initial public offering by eNeura. As consideration for the extension, eNeura issued to us a Warrant to Purchase Common Stock (the "Warrant"), exercisable at \$0.01 per share over a ten year contractual term.

During the third quarter of 2019, we engaged in negotiations with eNeura to settle the Restructured Debt Security and on October 25, 2019, we settled the Restructured Debt Security for a \$4.0 million cash payment and agreed to transfer the Warrant to eNeura. As such, prior to its settlement, we determined the Restructured Debt Security and Warrant were impaired and adjusted the carrying value of the Restructured Debt Security to \$4.0 million, its settlement value, by recording a net other-than-temporary impairment of \$6.5 million in other expense, net, which includes a reclassification of the related unrealized gains included in accumulated other comprehensive income (loss) of \$5.2 million.

#### Brazil

In 2018, the Federal Prosecution Service in Rio de Janeiro and representatives from the Brazilian antitrust authority inspected the offices of more than 30 companies, including the Company's office in São Paulo, as part of an investigation into tender irregularities in the medical device industry. Before doing so, the authorities obtained a court order affecting the Company's (and other companies') local bank accounts resulting in the freezing of the Company's cash. On April 3, 2019, our appeal regarding the freezing of our local bank accounts was heard by the Brazil Federal Court of Appeals of Rio de Janeiro, in which the Court ordered the unfreezing of our cash. Approximately \$2.5 million was then returned without any restrictions in April 2019. As such, this balance has been reclassified from restricted cash to cash and cash equivalents as of December 31, 2019.

In September 2019, in relation to an ongoing legal dispute with a former Brazilian distributor, approximately \$0.7 million of our cash in Brazil was frozen upon request to satisfy a judgment. Although we are appealing the judgment, this cash has been reclassified to restricted cash.

For additional discussion regarding these matters, see Note 12 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

#### **Unremitted Foreign Earnings**

Prior to the Domestication, as an entity incorporated in Curaçao, "foreign earnings" referred to both U.S. and non-U.S. earnings. As a result of the Domestication, only income sourced outside of the U.S. is considered unremitted foreign earnings. Unremitted foreign earnings decreased from \$50.4 million at December 31, 2018 to \$49.2 million at December 31, 2019, due to currency translation. As a result of the 2017 Tax Act, current year earnings have been deemed to be repatriated. Our investment in foreign subsidiaries continues to be indefinite in nature, however, we may periodically repatriate a portion of these earnings to the extent that we do not incur significant additional tax liability.

#### **Contractual Obligations**

The following table sets forth our contractual obligations as of December 31, 2019:

	Payments Due by Period										
(U.S. Dollars, in thousands)	Total	2020		2021 - 2023		2024		2025 and thereafter			
Operating leases	\$ 6,234	\$	1,979	\$	3,426	\$	143	\$	686		
Finance leases	32,547		1,013		4,327		1,501		25,706		
Total (1)(2)	\$ 38,781	\$	2,992	\$	7,753	\$	1,644	\$	26,392		

- (1) Associated with the acquisition of Spinal Kinetics, we may be required to make conditional revenue-based milestone payments of up to \$45.0 million in connection with future sales of the M6-C artificial cervical disc and M6-L artificial lumbar disc. We expect to make a \$15.0 million payment related to these contingent milestones in 2020 and a \$30.0 million payment in 2021; however, the timing of cash settlement, if any, could vary from these estimates.

  Accordingly, these contingent payments have been excluded from the contractual obligations table above. For further information regarding these contingent payments, see Note 11 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.
- We may be required to make payments related to our uncertain tax positions. However, we are unable to reliably estimate the timing of cash settlement, if any, with the respective taxing authorities. Accordingly, unrecognized tax benefits, including interest and penalties, of \$23.5 million as of December 31, 2019 have been excluded from the contractual obligations table above. For further information, see Note 19 of the Notes to the Consolidated Financial Statements in Item 8 of this Annual Report.

#### Off-balance Sheet Arrangements

As of December 31, 2019, we did not have any off-balance sheet arrangements that have or are reasonably likely to have a current or future effect on our financial condition, changes in financial condition, revenues or expenses, results of operations, cash flows, liquidity, capital expenditures or capital resources that are material to investors. In addition, we do not consider the backlog of firm orders to be material.

#### **Critical Accounting Estimates**

Our discussion of operating results is based upon the consolidated financial statements and accompanying notes. The preparation of these statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amount of revenues and expenses during the reporting period. On an ongoing basis, we evaluate these estimates, which are based on historical experience and various other assumptions that management believe to be reasonable under the circumstances at that point in time. Actual results may differ, significantly at times, from these estimates.

We believe the estimates described below are the most critical in preparing our consolidated financial statements. We have reviewed these critical accounting estimates with the Audit Committee of the Board of Directors.

## Revenue Recognition

The process for recognizing revenue involves significant assumptions and judgments for certain of our revenue streams. Revenue recognition policies are "critical accounting estimates" because changes in the assumptions used to develop the estimates could materially affect key financial measures, including net sales, gross margin, operating income, EBITDA, and net income.

Bone Growth Therapies revenue is largely attributable to the U.S. and is comprised of third-party payor transactions and wholesale revenue.

For revenue derived from third-party payors, including commercial insurance carriers, health maintenance organizations, preferred provider organizations and governmental payors, such as Medicare, in connection with the sale of our stimulation products, we recognize revenue when the stimulation product is fitted to and accepted by the patient and all applicable documents that are

required by the third-party payor have been obtained. Amounts paid by these third-party payors are generally based on fixed or allowable reimbursement rates. These revenues are recorded at the expected or preauthorized reimbursement rates, net of any contractual allowances or adjustments. Certain billings are subject to review by the third-party payors and may be subject to adjustment.

Wholesale revenue is related to the sale of our bone growth stimulators directly to physicians and other healthcare providers. Wholesale revenues are recognized upon shipment and receipt of a confirming purchase order, which is when the customer obtains control of the promised goods.

Biologics revenue is largely attributable to the U.S. and is primarily related to a collaborative arrangement with MTF. We have exclusive global marketing rights and receive marketing fees from MTF based on products distributed by MTF. MTF is considered the principal in these arrangements; therefore, we recognize these marketing service fees on a net basis upon shipment of the product to the customer.

Spinal Implants and Global Extremities products are distributed world-wide, with U.S. sales largely comprised of commercial revenue and international sales derived from commercial sales and through stocking distributor arrangements.

Commercial revenue is largely related to the sale of our Spinal Implants and Global Extremities products to hospital customers. Commercial revenues are recognized when these products have been utilized and a confirming purchase order has been received from the hospital.

Stocking distributors purchase our products and then re-sell them directly to customers, such as hospitals. For revenue derived from stocking distributor agreements, prior to the adoption of ASU 2014-09, *Revenue from Contracts with Customers* ("Topic 606"), i.e. for all periods presented prior to January 1, 2018, we recognized revenue once the product was delivered to the end customer (the "sell-through method"). Because we did not have reliable information about when our distributors sold the product through to end customers, we used cash collection from distributors as a basis for revenue recognition under the sell-through method. Additionally, when we sold to these distributors, we considered whether to match the related cost of sales expense with revenue or to recognize expense upon shipment. In making this assessment, we considered the financial viability of our distributors based on their creditworthiness to determine if collectability of amounts sufficient to realize the costs of the products shipped was reasonably assured at the time of shipment to these distributors. In instances where the distributor was determined to be financially viable, we deferred the costs of sales until the revenue was recognized.

Subsequent to the adoption of Topic 606, effective January 1, 2018, for revenue derived from stocking distributor arrangements, we recognize revenue upon shipment and receipt of a confirming purchase order, which is when the distributor obtains control of the promised goods. The transaction price is estimated based upon our historical collection experience with the stocking distributor. To derive this estimate, we analyze twelve months of historical invoices by stocking distributor and the subsequent collections on those invoices, for a period of up to 24 months subsequent to the invoice date. This percentage, which is specific to each stocking distributor, is then used to calculate the transaction price. Cost of sales is also recorded upon transfer of control of the product to the customer, which is when the Company's performance obligation has been satisfied.

#### Allowance for Doubtful Accounts and Contractual Allowances

The process for estimating the ultimate collection of accounts receivable involves significant assumptions and judgments. Historical collections, write-offs, and payor reimbursement experience are integral parts of the estimation process related to reserves for doubtful accounts and the establishment of contractual allowances. Accounts receivable are analyzed on a quarterly basis to assess the adequacy of both reserves for doubtful accounts and contractual allowances. Revisions in allowances for doubtful accounts estimates are recorded as an adjustment to bad debt expense within sales and marketing expenses. Revisions to contractual allowances are recorded as an adjustment to net sales. Our estimates are periodically tested against actual collection experience. We believe our allowance for doubtful accounts is sufficient to cover customer credit risks; however, a 10% change in our allowance for doubtful accounts as of December 31, 2019 would result in an increase or decrease to sales and marketing expense of \$0.4 million. Additionally, we believe our estimate to establish contractual allowances is sufficient to cover customer credit risks; however, a 10% change in our reserve for contractual allowances as of December 31, 2019 would result in an increase or decrease to net sales of \$0.6 million. Our allowance for doubtful accounts and estimation of contractual allowances are "critical accounting estimates" because changes in the assumptions used to develop the estimates could materially affect key financial measures, including net sales, gross margin, operating income, EBITDA, net income, and trade accounts receivable.

#### **Inventory Allowances**

Reserves for excess, slow moving, and obsolete inventory are calculated as the difference between the cost of inventory and market value, and are based on assumptions and judgments about new product launch periods, overall product life cycles, forecasted demand, and market conditions. In the event of a decrease in demand for our products, excess product production, or a higher incidence of inventory obsolescence, we could be required to increase our inventory reserves, which would increase cost of sales and decrease gross profit. We regularly evaluate our exposure for inventory write-downs. If conditions or assumptions used in determining the market value or forecasted demand change, additional inventory adjustments in the future may be necessary. Our inventory allowance is a "critical accounting estimate" because changes in the assumptions used to develop the estimate could materially affect key financial measures, including gross profit, operating income, EBITDA, net income, and inventory.

#### Valuation of Intangible Assets

Our intangible assets are comprised primarily of patents, acquired or developed technology, licensing arrangements, trademarks, and in-process research and development ("IPR&D"). We make significant judgments in relation to the valuation of intangible assets resulting from business combinations or asset acquisitions. Intangible assets acquired in a business combination that are used for IPR&D activities are considered to have indefinite lives until the completeion or abandonment of the associated project. Upon reaching the end of the revelant project, we will either amortize the acquired IPR&D over its estimated useful life or expense the acquired IPR&D should the project be unsuccessful with no future alternative use.

Significant judgment is required related to the forecasting of future operating results within our discounted cash flow valuation models to determine the valuation of intangible assets. Key assumptions include the anticipated useful lives of acquired intangibles, the projected cash flows associated with each intangible asset, the estimated probability of success for acquired IPR&D projects, and projected growth rates and discount rates. It is possible that significant changes in plans or assumptions may affect the recoverability of these assets and could potentially result in impairment. Our valuation of intangible assets is a "critical accounting estimate" because changes in the assumptions used to develop these estimates could materially affect key financial measures, including operating income, EBITDA, net income, and intangible assets, net.

#### Goodwill

Our goodwill represents the excess of cost over fair value of net assets acquired from business combinations. The determination of the value of goodwill and intangible assets arising from business combinations requires extensive use of accounting estimates and judgments to allocate the purchase price to the fair value of the net tangible and intangible assets acquired.

We test goodwill at least annually for impairment, and between annual tests if indicators of potential impairment exist. These indicators include, among others, declines in sales, earnings or cash flows, or the development of a material adverse change in the business climate. Assessing goodwill impairment involves a high degree of judgment due to the estimates and assumptions used. We believe the estimates and assumptions involved in the impairment assessment to be critical because significant changes in such estimates and assumptions could materially affect key financial measures, including operating income, EBITDA, and net income.

In connection with our change in reporting segments, which occurred during the first quarter of 2019, we performed a quantitative assessment of goodwill immediately prior to and subsequently following the change in reporting segments. The analysis did not result in an impairment. In addition, the net carrying value of goodwill that was previously reported under the prior reporting segments of (i) Bone Growth Therapies, (ii) Spinal Implants, and (iii) Biologics was consolidated and is now included within the Global Spine reporting segment.

In the fourth quarters of 2019 and 2018, we performed a qualitative assessments for our annual goodwill impairment analysis, which did not result in any impairment charge. This qualitative analysis considered all relevant factors specific to the reporting units, including macroeconomic conditions, industry and market considerations, overall financial performance and relevant entity-specific events.

#### Fair Value Measurements

Fair value is defined as the price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The two most significant items that are or were recorded at fair value include (i) contingent consideration attributable to the Spinal Kinetics acquisition and (ii) our eNeura debt security (prior to its restructuring and settlement in 2019).

The contingent consideration consists of potential future milestone payments of up to \$60.0 million in cash associated with the Spinal Kinetics acquisition, which must be achieved within five years of the acquisition date to be paid. The milestone payments include (i) up to \$15.0 million for meeting the FDA Milestone and (ii) revenue-based milestone payments of up to \$45.0 million in connection with future sales of the M6-C artificial cervical disc and the M6-L artificial lumbar disc. The FDA milestone was achieved and paid in February of 2019.

Prior to its attainment in 2019, we estimated the fair value of the FDA Milestone using a probability-weighted discounted cash flow model. This fair value was based on significant inputs not observable in the market, with key assumptions including our estimation of the probability of FDA approval for the M6-C artificial cervical disc, the timing of approval, and the discount rate applied. Significant changes in these assumptions could have resulted in a significantly higher or lower fair value prior to obtaining FDA approval.

We estimate the fair value of the potential future revenue-based milestone payments using a Monte Carlo simulation. This fair value measurement is based on significant inputs that are unobservable in the market, with key assumptions including the our forecasted future revenues for Spinal Kinetics, the discount rate applied, and assumptions for potential volatility of the forecasted revenue. Significant changes in these assumptions could result in a significantly higher or lower fair value. Holding other inputs constant, an increase in our forecasted future revenues by 5% would have resulted in an increase in the fair value of the contingent consideration of \$0.3 million, whereas a decrease in our forecasted future revenues by 5% would have resulted in a decrease in the fair value of the contingent consideration by \$0.4 million.

Prior to its restructuring and settlement in 2019 for \$4.0 million, the fair value of the eNeura debt security was based upon significant unobservable inputs, including the use of a discounted cash flows model, requiring us to develop our own assumptions. Some of the more significant unobservable inputs used in the fair value measurement of the eNeura debt security were our estimates related to the timing and likelihood of conversion as a result of a change in control event, the timing and likelihood of repayment, and the applicable discount rate.

Further, we were required to determine whether any decline in the fair value of the debt security below its basis was other-than-temporary. In making this determination, we considered our intentions to hold or sell the security, whether it more likely than not that we would be required to sell the security before the recovery of its amortized cost basis, and our best estimate of the amount that we ultimately expected to collect from the security. The estimated amount we expected to collect was based upon significant unobservable inputs, requiring us to develop our own assumptions.

Our fair value measurements are a "critical accounting estimate" because changes in the assumptions used to develop the estimate could materially affect key financial measures, including operating income, EBITDA, and net income.

#### Litigation and Contingent Liabilities

From time to time, we are parties to or targets of lawsuits, investigations and proceedings, including product liability, personal injury, patent and intellectual property, health and safety and employment and healthcare regulatory matters, which are handled and defended in the ordinary course of business. These lawsuits, investigations or proceedings could involve a substantial number of claims and could also have an adverse impact on our reputation and customer base. Although we maintain various liability insurance programs for liabilities that could result from such lawsuits, investigations or proceedings, we are self-insured for a significant portion of such liabilities.

We accrue for such claims when it is probable that a liability has been incurred and the amount can be reasonably estimated. The assessments of whether a loss is probable or a reasonable possibility, and whether the loss or range of loss is reasonably estimable, often involve a series of complex judgments about future events. Among the factors that we consider in this assessment are the nature of existing legal proceedings, investigations and claims, the asserted or possible damages or loss contingency (if reasonably estimable), the progress of the matter, existing law and precedent, the opinions or views of legal counsel and other advisers, the involvement of the U.S. Government and its agencies in such proceedings, our experience in similar matters and the experience of other companies, the facts available to us at the time of assessment, and how we intend to respond, or have responded, to the proceeding, investigation or claim. Our assessment of these factors may change over time as individual proceedings, investigations or claims progress. For matters where we are not currently able to reasonably estimate the range of reasonably possible loss, the factors that have contributed to this determination include the following: (i) the damages sought are indeterminate, or an investigation has not manifested itself in a filed civil or criminal complaint, (ii) the matters are in the early stages, (iii) the matters involve novel or unsettled legal theories or a large or uncertain number of actual or potential cases or parties, and/or (iv) discussions with the government or other parties in matters that may be expected ultimately to be resolved through negotiation and settlement

have not reached the point where we believe a reasonable estimate of loss, or range of loss, can be made. In such instances, we believe that there is considerable uncertainty regarding the timing or ultimate resolution of such matters, including a possible eventual loss, fine, penalty or business impact, if any.

Changes in the facts and circumstances associated with a claim could have a material impact on our results of operations and cash flows in the period that reserve estimates are recorded or revised. We believe our insurance coverage and reserves are sufficient to cover currently estimated exposures, but we cannot give any assurance that we will not incur liabilities in excess of recorded reserves or our present insurance coverage. Litigation and contingent liabilities are "critical accounting estimates" because changes in the assumptions used to develop the estimates could materially affect key financial measures, including operating income, EBITDA, and net income.

#### Tax Matters

We and each of our subsidiaries are taxed at the rates applicable within each of their respective jurisdictions. Our income tax expense, effective tax rate, deferred tax assets and deferred tax liabilities will vary according to the jurisdiction in which profits arise. Further, certain of our subsidiaries sell products directly to our other subsidiaries or provide administrative, marketing and support services to our other subsidiaries. These intercompany sales and support services involve subsidiaries operating in jurisdictions with differing tax rates. The tax authorities in such jurisdictions may challenge our treatments under residency criteria, transfer pricing provisions, or other aspects of their respective tax laws, which could affect our composite tax rate and provisions.

We sometimes engage in transactions in which tax consequences may be subject to uncertainty. We account for these uncertain tax positions in accordance with applicable accounting guidance, which requires significant judgment in assessing the estimated tax consequences of a transaction. We evaluate the tax position taken or expected to be taken in a tax return by determining if the weight of available evidence indicates that it is more likely than not that, on an evaluation of the technical merits, the tax position will be sustained on audit, including resolution of any related appeals or litigation processes. We measure the tax benefit as the largest amount that is more than 50% likely to be realized upon ultimate settlement. We re-evaluate our income tax positions periodically to consider factors such as changes in facts or circumstances, changes in or interpretations of tax law, effectively settled issues under audit and new audit activity. Such a change in recognition or measurement would result in recognition of a tax benefit or an additional charge to the tax provision, which could have a material impact to the financial statements.

We establish a valuation allowance when measuring deferred tax assets if it is more likely than not that certain deferred tax assets will not be realized in the foreseeable future. This process requires significant judgment as we must project the current tax liability and estimate the deferred tax assets and liabilities into future periods, including net operating loss and tax credit carry forwards. In assessing the need for a valuation allowance, we consider recent operating results, availability of taxable income in carryback years, future reversals of taxable temporary differences, future taxable income projections (exclusive of reversing temporary differences) and all prudent and feasible tax planning strategies.

Tax matters are "critical accounting estimates" because changes in the assumptions used to develop the estimates could materially affect key financial measures, including net income.

#### Share-based compensation

Determining the appropriate fair value model and calculating the fair value of employee stock awards requires estimates and judgments. Our share-based compensation is a "critical accounting estimate" because changes in the assumptions used to develop estimates of fair value or the requisite service period could materially affect key financial measures, including gross profit, operating income, EBITDA, and net income.

We use the Black-Scholes valuation model to calculate the fair value of service-based stock options. The value is recognized as expense over the service period net of actual forfeitures. The expected term of options granted is estimated based on a number of factors, including the vesting and expiration terms of the award, historical employee exercise behavior for both options that are currently outstanding and options that have been exercised or are expired, the historical volatility of our common stock and an employee's average length of service. The risk-free interest rate is determined based upon a constant U.S. Treasury security rate with a contractual life that approximates the expected term of the option award. We estimate expected volatility based on the historical volatility of our stock.

We use the Monte Carlo valuation methodology to calculate the fair value of market-based stock options and stock units. The value is recognized as expense over the requisite service period and adjusted for forfeitures as they occur. The Monte Carlo methodology that we use to estimate the fair value of market-based options incorporates the possibility that the market condition may not be satisfied.

The fair value of performance-based restricted stock awards and stock units is calculated based upon the closing stock price at the date of grant. The value is recognized as expense over the derived requisite service period beginning in the period in which they are deemed probable to vest. Vesting probability is assessed based upon forecasted earnings and financial results and requires significant judgment.

#### **Non-GAAP Financial Measures**

We believe that providing non-GAAP financial measures that exclude certain items provides investors with greater transparency to the information used by senior management in its financial and operational decision-making. We believe it is important to provide investors with the same non-GAAP metrics that senior management uses to supplement information regarding the performance and underlying trends of our business operations in order to facilitate comparisons to historical operating results and internally evaluate the effectiveness of our operating strategies. Disclosure of these non-GAAP financial measures also facilitates comparisons of our underlying operating performance with other companies in the industry that also supplement their GAAP results with non-GAAP financial measures.

The non-GAAP financial measures used in this Annual Report may have limitations as analytical tools and should not be considered in isolation or as a replacement for GAAP financial measures. Some of the limitations associated with the use of these non-GAAP financial measures are that they exclude items that reflect an economic cost that can have a material effect on cash flows. Similarly, certain non-cash expenses, such as equity compensation expense, do not directly impact cash flows, but are part of total compensation costs accounted for under GAAP.

#### Constant Currency

Constant currency is a non-GAAP measure, which is calculated by using foreign currency rates from the comparable, prior-year period, to present net sales at comparable rates. Constant currency can be presented for numerous GAAP measures, but is most commonly used by management to analyze net sales without the impact of changes in foreign currency rates.

#### **EBITDA**

EBITDA is defined as earnings before interest income (expense), net, income taxes, depreciation and amortization. EBITDA is the primary metric used by our Chief Operating Decision Maker in managing the business.

#### Free Cash Flow

Free cash flow is a non-GAAP financial measure, which is calculated by subtracting capital expenditures from net cash from operating activities. Free cash flow is an important indicator of how much cash is generated or used by our normal business operations, including capital expenditures. Management uses free cash flow as a measure of progress on its capital efficiency and cash flow initiatives.

## Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to certain market risks as part of our ongoing business operations. Primary exposures include changes in interest rates and foreign currency fluctuations. These exposures can impact sales, cost of sales, costs of operations and the cost of financing and yields on cash and short-term investments. We may use derivative financial instruments, where appropriate, to manage these risks. However, our risk management policy does not allow us to hedge positions we do not hold nor do we enter into derivative or other financial investments for trading or speculative purposes.

We are exposed to interest rate risk in connection with our Revolving Credit Facility, which bears interest at floating rates based on LIBOR, or possibly an alternative reference rate to be used in place of LIBOR upon the occurrence of a benchmark transition event, plus an applicable borrowing margin or at a base rate (as defined in the Amended Credit Agreement) plus an applicable borrowing margin. Therefore, interest rate changes generally do not affect the fair market value of the debt, but do impact future earnings and

cash flows, assuming other factors are held constant. As we do not have any balance outstanding associated with the Amended Credit Agreement as of December 31, 2019, this risk is currently minimal.

We believe that a concentration of credit risk related to our trade accounts receivable is limited because our customers are geographically dispersed and the end users are diversified across several industries. It is reasonably possible that changes in global economic conditions and/or local operating and economic conditions in the regions these customers operate, or other factors, could affect the future realization of these accounts receivable balances.

Our foreign currency exposure results from fluctuating currency exchange rates, primarily the U.S. Dollar against the Euro, Brazilian Real, or British Pound. We are subject to cost of sales currency exposure when we produce products in foreign currencies such as the Euro, Brazilian Real, or British Pound and sell those products in U.S. Dollars. We are subject to transactional currency exposures when our subsidiaries (or the Company itself) enter into transactions denominated in a currency other than their functional currency. For the year ended December 31, 2019, we recorded a foreign currency loss of \$1.4 million on the statement of operations and comprehensive income (loss) resulting from gains and losses in foreign currency transactions.

We also are subject to currency exposure from translating the results of our global operations into the U.S. Dollar at exchange rates that fluctuate during the period. The U.S. Dollar equivalent of international sales denominated in foreign currencies was unfavorably impacted during the years ended December 31, 2019 and December 31, 2018 by monthly foreign currency exchange rate fluctuations of the U.S. dollar against all of the foreign functional currencies for our international operations. As we continue to distribute and manufacture our products in selected foreign countries, we expect that future sales and costs associated with our activities in these markets will continue to be denominated in the applicable foreign currencies, which could cause currency fluctuations to materially impact our operating results. An analysis was performed to determine the sensitivity of our current year net sales and operating income to changes in foreign currency exchange rates. We determined that if the U.S. Dollar decreased in value by 10% relative to all foreign currencies of our international operations it would result in an increase in net sales of \$8.6 million and an increase in net sales of \$8.6 million and a decrease in operating income of \$0.8 million.

#### Item 8. Financial Statements and Supplementary Data

See "Index to Consolidated Financial Statements" on page F-1 of this Annual Report.

#### <u>Item 9.</u> <u>Changes in and Disagreements with Accountants on Accounting and Financial Disclosure</u>

None.

#### Item 9A. Controls and Procedures

#### **Evaluation of Disclosure Controls and Procedures**

At the end of the period covered by this Annual Report, under the supervision and with the participation of our management, including our President and Chief Executive Officer and our Chief Financial Officer, we performed an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures. Based upon that evaluation, our President and Chief Executive Officer and Chief Financial Officer concluded that, as of the end of the period covered by this Annual Report, our disclosure controls and procedures were effective.

#### Management's Report on Internal Control over Financial Reporting

The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting (as such term is defined in the Exchange Act Rule 13a-15(f)). The Company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. GAAP, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (iii) provide reasonable assurance regarding the prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on the financial statements.

Internal control over financial reporting is designed to provide reasonable assurance to the Company's management and board of directors regarding the preparation of reliable financial statements for external purposes in accordance with U.S. GAAP. Because of the inherent limitations in any internal control, no matter how well designed, misstatements may occur and not be prevented or detected. Accordingly, even effective internal control over financial reporting can provide only reasonable assurance with respect to financial statement preparation. Further, the evaluation of the effectiveness of internal control over financial reporting was made as of a specific date, and continued effectiveness in future periods is subject to the risks that controls may become inadequate because of changes in conditions or that the degree of compliance with the policies and procedures may decline.

In connection with the preparation and filing of this Annual Report, the Company's management, including our President and Chief Executive Officer and our Chief Financial Officer, conducted an evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2019, based on the framework set forth in "Internal Control—Integrated Framework (2013)" issued by the Committee of Sponsoring Organizations of the Treadway Commission (the COSO criteria). Based on its evaluation, the Company's management concluded that, as of December 31, 2019, the Company's internal control over financial reporting is effective based on the specified criteria.

Ernst & Young has issued an audit report on the effectiveness of our internal control over financial reporting, which follows this report.

#### **Changes in Internal Control over Financial Reporting**

There have not been any changes in our internal control over financial reporting during the fourth quarter of 2019 that have materially affected or are reasonably likely to materially affect, our internal control over financial reporting.

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Orthofix Medical Inc.

#### **Opinion on Internal Control over Financial Reporting**

We have audited Orthofix Medical Inc.'s internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, Orthofix Medical Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income (loss), changes in shareholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes and our report dated February 24, 2020 expressed an unqualified opinion thereon.

#### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

#### **Definition and Limitations of Internal Control Over Financial Reporting**

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP Dallas, Texas February 24, 2020

#### Item 9B. Other Information

Not applicable.

#### **PART III**

Information required by Items 10, 11, 12, 13 and 14 of Form 10-K is omitted from this Annual Report and will be filed in a definitive proxy statement or by an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report.

## Item 10. Directors, Executive Officers and Corporate Governance

We will provide information that is responsive to this Item 10 regarding executive compensation in our definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report, in either case under the caption "Information About Directors," "Section 16 (a) Beneficial Ownership Reporting Compliance" and others possibly elsewhere therein. That information is incorporated in this Item 10 by reference.

#### Item 11. Executive Compensation

We will provide information that is responsive to this Item 11 regarding executive compensation in our definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report, in either case under the caption "Executive Compensation," and possibly elsewhere therein. That information is incorporated in this Item 11 by reference.

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

We will provide information that is responsive to this Item 12 regarding ownership of our securities by certain beneficial owners and our directors and executive officers, as well as information with respect to our equity compensation plans, in our definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report, in either case under the captions "Security Ownership of Certain Beneficial Owners and Management and Related Stockholders" and "Equity Compensation Plan Information," and possibly elsewhere therein. That information is incorporated in this Item 12 by reference.

#### Item 13. Certain Relationships and Related Transactions, and Director Independence

We will provide information that is responsive to this Item 13 regarding transactions with related parties and director independence in our definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report, in either case under the caption "Certain Relationships and Related Transactions," and "Director Independence" and possibly elsewhere therein. That information is incorporated in this Item 13 by reference.

#### Item 14. Principal Accountant Fees and Services

We will provide information that is responsive to this Item 14 regarding principal accountant fees and services in our definitive proxy statement or in an amendment to this Annual Report not later than 120 days after the end of the fiscal year covered by this Annual Report, in either case under the caption "Principal Accountant Fees and Services," and possibly elsewhere therein. That information is incorporated in this Item 14 by reference.

#### **PART IV**

## <u>Item 15.</u> <u>Exhibits, Financial Statement Schedules</u>

## (a) Documents filed as part of report on Form 10-K

The following documents are filed as part of this Annual Report on Form 10-K:

- 1. Financial Statements
  - See "Index to Consolidated Financial Statements" on page F-1 of this Form 10-K.
- 2. Financial Statement Schedules

No schedules are required because either the required information is not present or is not present in amounts sufficient to require submission of the schedule, or because the information required is included in the consolidated financial statements or the notes thereto.

3. Exhibits

Exhibit

Number	Description
2.1	Agreement and Plan of Merger, entered into March 15, 2018, by and among Blackstone Medical, Inc., Summit Development, Inc., and Spinal Kinetics, Inc. (filed as an exhibit to the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018 and incorporated herein by reference).
3.1	Orthofix Medical Inc. Certificate of Incorporation (filed as an exhibit to the Company's Current Report on Form 8-K dated August 1, 2018 and incorporated herein by reference).
3.2	Orthofix Medical Inc. Bylaws (filed as an exhibit to the Company's Current Report on Form 8-K dated August 1, 2018 and incorporated herein by reference).
4.1	Form of Stock Certificate (filed as an exhibit to the Company's Current Report on Form 8-K dated August 1, 2018 and incorporated herein by reference).
4.2*	Description of the Registrant's Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934.
10.1	Second Amended and Restated Credit Agreement, dated October 25, 2019, among Orthofix Medical Inc., Orthofix Inc., Orthofix Spinal Implants Inc., Orthofix International B.V., Orthofix III B.V., and certain subsidiaries of Orthofix Medical Inc. as guarantors, the several banks and other financial institutions as may from time to time become parties thereunder as lenders, and JPMorgan Chase, N.A., as administrative agent (filed as an exhibit to the Company's Current Report on Form 8-K filed on November 1, 2019 and incorporated herein by reference).
10.2†	Matrix Commercialization Collaboration Agreement, entered into July 24, 2008, by and between Orthofix Holdings, Inc. and Musculoskeletal Transplant Foundation (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2009 and incorporated herein by reference).
10.3	Amendment No. 1 to Matrix Commercialization Collaboration Agreement, dated as of December 15, 2010, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2010 and incorporated herein by reference).
10.4†	Amendment No. 2 to Matrix Commercialization Collaboration Agreement, dated as of January 9, 2012, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to amendment no. 1 to the Company's Annual Report on Form 10-K/A for the year ended December 31, 2011 and incorporated herein by reference).
10.5†	Amendment No. 3 to Matrix Commercialization Collaboration Agreement, entered into on July 1, 2013 and effective as of June 25, 2013, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to the Company's Current Report on Form 8-K filed July 8, 2013 and incorporated herein by reference).
10.6	Amendment No. 4 to Matrix Commercialization Collaboration Agreement, entered into on April 1, 2014, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to the Company's Current Report on Form 8-K filed April 7, 2014 and incorporated herein by reference).

Number	Description
10.7†	Amendment No. 5 to Matrix Commercialization Collaboration Agreement, entered into on March 10, 2016, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to the Company's Current Report on Form 8-K filed March 14, 2016 and incorporated herein by reference).
10.8†	Amendment No. 6 to Matrix Commercialization Collaboration Agreement, entered into on December 29, 2017, by and between Musculoskeletal Transplant Foundation, Inc. and Orthofix Holdings, Inc. (filed as an exhibit to the Company's Annual Report on Form 10-K filed February 26, 2018 and incorporated herein by reference).
10.9	Orthofix Medical Inc. Second Amended and Restated Stock Purchase Plan, as Amended (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018 and incorporated herein by reference).
10.10	Orthofix Medical Inc. Amended and Restated 2012 Long-Term Incentive Plan (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018 and incorporated herein by reference).
10.11*	Form of Employee Performance Stock Unit Agreement under the Orthofix Medical Inc. Amended and Restated 2012 Long-Term Incentive Plan.
10.12*	Employee Time-Based Vesting Restricted Stock Unit Grant Agreement for Bradley R. Mason under the Orthofix Medical Inc. Amended and Restated 2012 Long-Term Incentive Plan.
10.13*	Form of Time-Based Vesting Employee Restricted Stock Unit Grant Agreement (2019 Executive Retention Grants) under the Orthofix Medical Inc.  Amended and Restated 202 Long-Term Incentive Plan.
10.14	Form of Time-Based Vesting Employee Restricted Stock Grant Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan (filed as an exhibit to the Company's Current Report on Form 8-K filed July 8, 2016 and incorporated here by reference).
10.15	Form of Employee Restricted Stock Grant Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan – July 2014-June 2016 (Time-Based Vesting) (filed as an exhibit to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2014 and incorporated herein by reference).
10.16	Form of Time-Based Vesting Employee Non-Qualified Stock Option Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan (filed as an exhibit to the Company's Current Report on Form 8-K filed July 8, 2016 and incorporated here by reference).
10.17	Form of Employee Non-Qualified Stock Option Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan – July 2014-June 2016 (Time-Based Vesting) (filed as an exhibit to the Company's Quarterly Report on Form 10-Q for the quarter ended September 30, 2014 and incorporated herein by reference).
10.18	Form of Employee Non-Qualified Stock Option Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan (pre-2014 grants) (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2012 and incorporated herein by reference).
10.19	Form of Non-Employee Director Restricted Stock Unit Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan (filed as an exhibit to the Company's Form 10-Q filed on August 7, 2017 and incorporated herein by reference).
10.20	Form of Time-Based Vesting Non-Employee Director Non-Qualified Stock Option Agreement under the Orthofix International N.V. 2012 Long-Term Incentive Plan (initial grant) (filed as an exhibit to the Company's Current Report on Form 8-K filed July 8, 2016 and incorporated here by reference).
10.21	Form of Non-Employee Director Non-Qualified Stock Option Agreement under the Orthofix International N.V. 2012 Long Term Incentive Plan. (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2012 and incorporated herein by reference).
10.22	Employee Inducement Restricted Stock Unit Agreement for Jon Serbousek (filed as an exhibit to the Company's Form S-8 filed on August 5, 2019 and incorporated herein by reference).

Exhibit

Exhibit Number	Description
10.23	Employee Inducement Non-Qualified Stock Option Agreement for Jon Serbousek (filed as an exhibit to the Company's Form S-8 filed on August 5, 2019 and incorporated herein by reference).
10.24	Employee Inducement Restricted Stock Unit Agreement for Beth Stevenson (filed as an exhibit to the Company's Form S-8 filed on February 2, 2019 and incorporated herein by reference).
10.25	Employee Inducement Restricted Stock Unit Agreement for Beth Stevenson (filed as an exhibit to the Company's Form S-8 filed on February 2, 2019 and incorporated herein by reference).
10.26	Inducement Plan for Spinal Kinetics Employees (filed as an exhibit to the Company's Form S-8 filed on April 30, 2018 and incorporated herein by reference).
10.27	Form of Inducement Grant Non-Qualified Stock Option Agreement (filed as an exhibit to the Company's Form S-8 filed on April 30, 2018 and incorporated herein by reference).
10.28	Form of Inducement Grant Restricted Stock Agreement (filed as an exhibit to the Company's Form S-8 filed on April 30, 2018 and incorporated herein by reference).
10.29	Inducement Grant Non-Qualified Stock Option Agreement, dated March 13, 2013, between Orthofix International N.V. and Bradley R. Mason (filed as an exhibit to the Company's Current Report on Form 8-K filed March 13, 2013 and incorporated herein by reference).
10.30	Amended and Restated 2004 Long Term Incentive Plan (filed as an exhibit to the Company's quarterly report on Form 10-Q for the quarter ended June 30, 2009 and incorporated herein by reference).
10.31	Form of Employee Non-Qualified Stock Option Agreement under the Orthofix International N.V. Amended and Restated 2004 Long-Term Incentive Plan (post-2008 grants made under the 2004 Long Term Incentive Plan prior to the adoption of the 2012 Long Term Incentive Plan) (filed as an exhibit to the Company's Current Report on Form 8-K filed July 7, 2009 and incorporated herein by reference).
10.32	Form of Indemnification Agreement between Orthofix Medical Inc. and its directors and officers (incorporated by reference to Exhibit 10.1 to the Company's Registration Statement on Form S-4 (Registration No. 333-224407) filed April 23, 2018).
10.33	Amended Change in Control and Severance Agreement, dated November 1, 2016, between Orthofix International N.V. and Bradley R. Mason (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and incorporated herein by reference).
10.34	Transition and Retirement Agreement, dated February 25, 2019, between Bradley R. Mason and Orthofix Medical Inc. (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018 and incorporated herein by reference).
10.35	Consulting Agreement, dated November 1, 2019, between Orthofix Medical Inc. and Bradley R. Mason (filed as an Exhibit to the Company's Current Report on Form 8-K filed November 1, 2019 and incorporated herein by reference).
10.36	Change in Control and Severance Agreement, dated November 1, 2019, between Orthofix Medical Inc. and Jon Serbousek (filed as an Exhibit to the Company's Current Report on Form 8-K filed November 1, 2019 and incorporated herein by reference).
10.37*	Letter agreement, dated December 4, 2019, between the Company and Kevin Kenny.
10.38*	Change in Control and Severance Agreement, dated November 1, 2019, between Orthofix Medical Inc. and Kevin Kenny.
10.39	Amended Change in Control and Severance Agreement, dated November 1, 2016, between Orthofix International N.V. and Doug Rice (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and incorporated herein by reference).
10.40	Change in Control and Severance Agreement, dated November 1, 2016, between Orthofix International N.V. and Kimberley Elting (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and incorporated herein by reference).

Exhibi Numbe	
10.41	Amended Change in Control and Severance Agreement, dated November 1, 2016, between Orthofix International N.V. and Michael M. Finegan (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and incorporated herein by reference).
10.42	Change in Control and Severance Agreement, dated September 7, 2016, between Orthofix International N.V. and Davide Bianchi (filed as an exhibit to the Company's Current Report on Form 8-K filed September 9, 2016 and incorporated herein by reference).
10.43	Amended and Restated Employment Contract, dated July 31, 2018 between Orthofix AG and Davide Bianchi (filed as an exhibit to the Company's Current Report on Form 8-K filed August 6, 2018 and incorporated herein by reference).
10.44	Amended Change in Control and Severance Agreement, dated November 1, 2016, between Orthofix International N.V. and Bradley V. Niemann (filed as an exhibit to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and incorporated herein by reference).
21.1*	<u>List of Subsidiaries.</u>
23.1*	Consent of Independent Registered Public Accounting Firm.
31.1*	Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer.
31.2*	Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer.
32.1*	Section 1350 Certification of Chief Executive Officer and Certification of Chief Financial Officer.
101	The following financial statements from Orthofix Medical Inc. on Form 10-K for the year ended December 31, 2019 filed on February 24, 2020, formatted in Inline XBRL (Inline Extensible Business Reporting Language): (i) Consolidated Balance Sheets, (ii) Consolidated Statements of Operations and Comprehensive Income (Loss), (iii) Consolidated Statements of Changes in Shareholders' Equity, (iv) Consolidated Statements of Cash Flows, and (v) the Notes to the Consolidated Financial Statements.
104	The cover page from Orthofix Medical Inc.'s Annual Report on Form 10-K for the year ended December 31, 2019, formatted in Inline XBRL and contained in Exhibit 101.
*	Filed with this Form 10-K.

- \* Filed with this Form 10-K.
- † Certain confidential portions of this exhibit were omitted by means of redacting a portion of the text. This exhibit has been filed separately with the Secretary of the Commission without redactions pursuant to our Application Requesting Confidential Treatment under the Securities Exchange Act of 1934.

# <u>Item 16.</u> <u>Form 10-K Summary</u>

None

## **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

## ORTHOFIX MEDICAL INC.

Dated: February 24, 2020	Ву:	/s/ JON SERBOUSEK
	Name:	Jon Serbousek
	Title:	President and Chief Executive Officer, Director
Dated: February 24, 2020	Ву:	/s/ DOUG RICE
	Name:	Doug Rice
	Title:	Chief Financial Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Name	Title	Date
/s/ JON SERBOUSEK  Jon Serbousek	President and Chief Executive Officer, Director (Principal Executive Officer)	February 24, 2020
/s/ DOUG RICE  Doug Rice	Chief Financial Officer (Principal Financial and Accounting Officer)	February 24, 2020
/s/ RONALD A. MATRICARIA  Ronald A. Matricaria	Chairman of the Board of Directors	February 24, 2020
/s/ JAMES HINRICHS  James Hinrichs	Director	February 24, 2020
/s/ ALEXIS V. LUKIANOV  Alexis V. Lukianov	Director	February 24, 2020
/s/ LILLY MARKS Lilly Marks	Director	February 24, 2020
/s/ MICHAEL E. PAOLUCCI Michael E. Paolucci	Director	February 24, 2020
/s/ MARIA SAINZ  Maria Sainz	Director	February 24, 2020
/s/ JOHN SICARD  John Sicard	Director	February 24, 2020

#### Statement of Management's Responsibility for Financial Statements

To the Shareholders of Orthofix Medical Inc.:

Management is responsible for the preparation of the consolidated financial statements and related information that are presented in this Annual Report. The consolidated financial statements, which include amounts based on management's estimates and judgments, have been prepared in conformity with accounting principles generally accepted in the United States. Other financial information in the report to shareholders is consistent with that in the consolidated financial statements.

The Company maintains accounting and internal control systems to provide reasonable assurance at a reasonable cost that assets are safeguarded against loss from unauthorized use or disposition, and that the financial records are reliable for preparing financial statements and maintaining accountability for assets. These systems are augmented by written policies, an organizational structure providing division of responsibilities and careful selection and training of qualified personnel.

The Company engaged Ernst & Young LLP, independent registered public accountants, to audit and render an opinion on the consolidated financial statements in accordance with auditing standards of the Public Company Accounting Oversight Board (United States). These standards include an assessment of the systems of internal controls and test of transactions to the extent considered necessary by them to support their opinion.

The Board of Directors, through its Audit Committee consisting solely of outside directors of the Company, meets periodically with management and our independent registered public accountants to ensure that each is meeting its responsibilities and to discuss matters concerning internal controls and financial reporting. Ernst & Young LLP has full and free access to the Audit Committee.

#### **James Hinrichs**

Chairman of the Audit Committee

#### Jon Serbousek

President and Chief Executive Officer, Director

#### **Doug Rice**

**Chief Financial Officer** 

## **Index to Consolidated Financial Statements**

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Index to Consolidated Financial Statements	F-1
Report of Independent Registered Public Accounting Firm	F-2
Consolidated Balance Sheets as of December 31, 2019 and 2018	F-5
Consolidated Statements of Operations and Comprehensive Income (Loss) for the years ended December 31, 2019, 2018, and 2017	F-6
Consolidated Statements of Changes in Shareholders' Equity for the years ended December 31, 2019, 2018, and 2017	F-7
Consolidated Statements of Cash Flows for the years ended December 31, 2019, 2018, and 2017	F-8
Notes to the Consolidated Financial Statements	F-9

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Shareholders and the Board of Directors of Orthofix Medical Inc.

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Orthofix Medical Inc. (the Company) as of December 31, 2019 and 2018, the related consolidated statements of operations and comprehensive income (loss), changes in shareholders' equity and cash flows for each of the three years in the period ended December 31, 2019, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 24, 2020 expressed an unqualified opinion thereon.

#### **Adoption of New Accounting Standards**

As discussed in Notes 2, 8 and 14 to the consolidated financial statements, the Company changed its methods of accounting for 1) leases in 2019 due to the adoption of ASU No. 2016-02, *Leases (Topic 842)*, 2) recognition of revenue from contracts with customers in 2018 due to the adoption of ASU No. 2014-09, *Revenue from Contracts with Customers*, and 3) measurement of equity investments at fair value and the recognition of any changes in fair value in 2018 due to the adoption of ASU No. 2016-01, *Financial Instruments* and ASU 2018-03, *Technical Connections and Improvements to Financial Instruments*.

## **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

## **Critical Audit Matters**

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

#### Contingent Consideration – Spinal Kinetics

#### Description of the Matter

As described in Note 11 to the consolidated financial statements, the Company's contingent consideration at the acquisition date of Spinal Kinetics, Inc. consisted of potential milestone payments of \$15.0 million for achieving FDA approval and up to \$45 million in connection with certain future product sales. At December 31, 2019, the fair value of contingent consideration was \$42.7 million.

Auditing the Company's accounting for the fair value of its contingent consideration involved a high degree of subjectivity in evaluating management's estimates and the fair value is sensitive to changes in unobservable inputs, such as the forecasted future revenues for the Spinal Kinetics, Inc. products, discount rate applied, and assumptions for potential volatility in the forecasted revenues.

# Matter in Our Audit

How We Addressed the We obtained an understanding, evaluated the design and tested the operating effectiveness of controls that address the risks of material misstatement relating to the measurement and valuation of the contingent consideration liability. For example, we tested controls over the Company's process to estimate the fair value of the contingent consideration, management's review of the significant estimation assumptions and methods used to develop the fair value estimate, the accuracy of the calculations included within the fair value model, and the underlying data used in the model.

> To test the fair value of the contingent consideration liability, we performed audit procedures that included, among others, assessing the terms of the arrangement, including the criteria required to achieve the contingent consideration, and evaluating the significant assumption and underlying data used by the Company in the valuation model. In addition, we involved a valuation specialist to assist in evaluating the appropriateness of the valuation model, certain of the valuation model's assumptions, and to test the model's computational accuracy. We also tested the completeness and accuracy of the underlying data used in the model.

#### **Inventory Excess and Obsolescence Reserves**

## Description of the Matter

At December 31, 2019, the Company's inventory balance is \$82.4 million, which is net of management's estimate of inventory excess and obsolescence reserves. As described in Note 4 to the consolidated financial statements, management adjusts the value of its inventory to ne realizable value to the extent it determines inventory cost cannot be recovered due to obsolescence or other factors. In order to make these determinations, management estimates future demand and sales prices to determine the appropriate inventory reserves and to make corresponding adjustments to the carrying value of these inventories to reflect the lower of cost or net realizable value.

Auditing management's estimate of the inventory excess and obsolescence reserves involved a high degree of subjectivity because the estimate was sensitive to changes in assumptions, including forecasted product demand, length of product life cycles, and the period required to evaluate the level of market acceptance for new products. These assumptions have a significant effect on the measurement of inventory excess and obsolescence reserves.

Matter in Our Audit

How We Addressed the We obtained an understanding, evaluated the design and tested the operating effectiveness of controls that address the risks of material misstatement relating to the measurement and valuation of inventory excess and obsolescence reserves. For example, we tested controls over the Company's processes to estimate the inventory excess and obsolescence reserves, management's review and approval of the mode used to estimate the inventory excess and obsolescence reserve, including the data inputs and outputs of such model and management's qualitative adjustments to the model.

> To test the inventory excess and obsolescence reserve balance, we performed audit procedures that included, among others, evaluating the significant assumptions and qualitative adjustments described above and the underlying data used by the Company in its analysis. Our audit procedures included testing the completeness

> and accuracy of the underlying data used in the model and evaluating whether such data was representative of current circumstances. We assessed the historical accuracy of management's estimates and performed sensitivity analyses of significant assumptions to evaluate the changes in the inventory excess and obsolescence reserves that would result from changes in the assumptions.

#### Revenue Recognition (ASC 606) - Risk of Side Agreements with Distributors

Description of the Matter

As described in Note 14 to the consolidated financial statements, the Company recognizes revenue from stocking distributors ("distributor revenue") upon shipment and receipt of a confirming purchase order, which is when the distributor obtains control of the promised goods. Those revenues are based on the Company's historical collection experience, which considers the potential for, among other things, the return of previously sold products.

Auditing the Company's measurement of any potential variable consideration under the distributor contracts is especially challenging due to the potential of side agreements that may allow for the return of previously sold products.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's process to (i) review and approve new distributor agreements; (ii) review and approve all changes made to existing arrangements; (iii) review and approve product returns; and (iv) identify and report potential distributor side agreements by inspecting source documentation used during management's review.

Our audit procedures included, among others, confirmation of the terms and conditions of material distributor agreements. In addition, we evaluated whether the Company's actual returns of product from distributors were appropriately approved and considered in management's application of its revenue recognition policy for distributor revenue.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2002.

Dallas, Texas February 24, 2020

## Consolidated Balance Sheets as of December 31, 2019 and 2018

(U.S. Dollars, in thousands except share and per share data)			2018		
Assets		_			
Current assets					
Cash and cash equivalents	\$	69,719	\$	69,623	
Restricted cash		684		2,566	
Trade accounts receivable, net of allowances of \$3,987 and \$7,463, respectively		86,805		77,747	
Inventories		82,397		76,847	
Prepaid expenses and other current assets		20,948		17,856	
Total current assets		260,553		244,639	
Property, plant and equipment, net		62,727		42,835	
Intangible assets, net		54,139		51,897	
Goodwill		71,177		72,401	
Deferred income taxes		35,117		33,228	
Other long-term assets		11,907		21,641	
Total assets	\$	495,620	\$	466,641	
Liabilities and shareholders' equity					
Current liabilities					
Trade accounts payable	\$	19,886	\$	17,989	
Current portion of finance lease liability		323		_	
Other current liabilities		64,674		67,919	
Total current liabilities		84,883		85,908	
Long-term portion of finance lease liability		20,648		_	
Other long-term liabilities		62,458		45,336	
Total liabilities		167,989		131,244	
Contingencies (Note 12)					
Shareholders' equity					
Common shares \$0.10 par value; 50,000,000 shares authorized;					
19,022,619 and 18,579,688 issued and outstanding as of December 31,					
2019 and 2018, respectively		1,902		1,858	
Additional paid-in capital		271,019		243,165	
Retained earnings		57,749		87,078	
Accumulated other comprehensive income (loss)		(3,039)		3,296	
Total shareholders' equity		327,631	_	335,397	
Total liabilities and shareholders' equity	\$	495,620	\$	466,641	

The accompanying notes form an integral part of these consolidated financial statements.

# Consolidated Statements of Operations and Comprehensive Income (Loss) For the years ended December 31, 2019, 2018, and 2017

(U.S. Dollars, in thousands, except share and per share data)	2019	2018		2017
Net sales	\$ 459,955	\$ 453,042	\$	433,823
Cost of sales	100,607	96,628		93,037
Gross profit	359,348	356,414		340,786
Sales and marketing	223,676	205,527		198,370
General and administrative	85,607	83,251		71,905
Research and development	34,637	33,218		29,700
Acquisition-related amortization and remeasurement	34,212	4,324		<u> </u>
Operating income (loss)	(18,784)	30,094		40,811
Interest expense, net	(122)	(828)		(416)
Other expense, net	(8,143)	(6,381)		(4,004)
Income (loss) before income taxes	(27,049)	22,885		36,391
Income tax expense	(1,413)	(9,074)		(29,100)
Net income (loss) from continuing operations	(28,462)	13,811		7,291
Discontinued operations (Note 12)				
Loss from discontinued operations	_	_		(1,759)
Income tax benefit	_	_		691
Net loss from discontinued operations	_	_		(1,068)
Net income (loss)	\$ (28,462)	\$ 13,811	\$	6,223
Net income (loss) per common share—basic				
Net income (loss) from continuing operations	\$ (1.51)	\$ 0.73	\$	0.40
Net loss from discontinued operations	_	_		(0.06)
Net income (loss) per common share—basic	\$ (1.51)	\$ 0.73	\$	0.34
Net income (loss) per common share—diluted				_
Net income (loss) from continuing operations	\$ (1.51)	\$ 0.72	\$	0.39
Net loss from discontinued operations	_	_		(0.05)
Net income (loss) per common share—diluted	\$ (1.51)	\$ 0.72	\$	0.34
Weighted average number of common shares:				_
Basic	18,903,289	18,494,002		18,117,405
Diluted	18,903,289	18,911,610		18,498,745
Other comprehensive income (loss), before tax				
Unrealized gain (loss) on debt security	(2,593)	1,770		3,830
Reclassification adjustment for amortization of historical unrealized gains on debt				
security	(1,034)	_		_
Reclassification adjustment for loss on debt security in net income	(5,193)			5,585
Currency translation adjustment	(653)	(1,823)		4,552
Other comprehensive income (loss), before tax	(9,473)	(53)		13,967
Income tax benefit (expense) related to items of other comprehensive income (loss)	2,201	(438)		(3,600)
Other comprehensive income (loss), net of tax	(7,272)	(491)	_	10,367
Comprehensive income (loss)	\$ (35,734)	\$ 13,320	\$	16,590

 $\label{thm:companying} \textit{The accompanying notes form an integral part of these consolidated financial statements}.$ 

# Consolidated Statements of Changes in Shareholders' Equity For the years ended December 31, 2019, 2018, and 2017

(U.S. Dollars, in thousands, except share data)	Number of Common Shares Outstanding	-	Common Shares	ı	Additional Paid-in Capital	Retained Earnings	Con	ccumulated Other nprehensive come (Loss)	Sha	Total areholders' Equity
At December 31, 2016	17,828,155	\$	1,783	\$	204,095	\$ 64,179	\$	(6,580)	\$	263,477
Net income	_		_		_	6,223		_		6,223
Other comprehensive income, net of tax	_		_		_	_		10,367		10,367
Share-based compensation	_		_		12,557	_		_		12,557
Common shares issued	450,678		45		3,939	-		_		3,984
At December 31, 2017	18,278,833	\$	1,828	\$	220,591	\$ 70,402	\$	3,787	\$	296,608
Cumulative effect adjustment from adoption of ASU 2014-09	_		_		_	4,761		_		4,761
Cumulative effect adjustment from adoption of ASU 2016-16	_		_		_	(1,896)		_		(1,896)
Net income	_		_		_	13,811		_		13,811
Other comprehensive loss, net of tax	_		_		_	_		(491)		(491)
Share-based compensation	_		_		18,930	_		_		18,930
Common shares issued	300,855		30		3,644	_		_		3,674
At December 31, 2018	18,579,688	\$	1,858	\$	243,165	\$ 87,078	\$	3,296	\$	335,397
Cumulative effect adjustment from adoption of ASU 2016-02	_		_		_	70		_		70
Cumulative effect adjustment from adoption of ASU 2018-02	_		_		_	(937)		937		_
Net loss	_		_		_	(28,462)		_		(28,462)
Other comprehensive loss, net of tax	_		_		_	_		(7,272)		(7,272)
Share-based compensation	_		_		21,540	_		_		21,540
Common shares issued	442,931		44		6,314	_		_		6,358
At December 31, 2019	19,022,619	\$	1,902	\$	271,019	\$ 57,749	\$	(3,039)	\$	327,631

The accompanying notes form an integral part of these consolidated financial statements.

## Consolidated Statements of Cash Flows For the years ended December 31, 2019, 2018, and 2017

(U.S. Dollars, in thousands)	2019	2018	2017
Cash flows from operating activities			
Net income (loss)	\$ (28,462)	\$ 13,811	\$ 6,223
Adjustments to reconcile net income to net cash from operating activities			
Depreciation and amortization	24,699	18,659	20,124
Amortization of debt costs and other assets	3,778	1,024	1,712
Provision for doubtful accounts	1,891	(599)	1,639
Deferred income taxes	1,393	(2,661)	21,286
Share-based compensation	21,540	18,930	12,557
Interest and loss on the valuation of investment securities	5,000	3,050	5,585
Change in fair value of contingent consideration	29,140	3,069	_
Other	2,433	1,633	1,398
Changes in operating assets and liabilities, net of effects of acquisitions			
Trade accounts receivable	(11,037)	(3,706)	(6,562)
Inventories	(5,712)	9,698	(15,645)
Prepaid expenses and other current assets	(3,698)	(1,127)	(6,352)
Trade accounts payable	2,138	(170)	2,324
Other current liabilities	(7,716)	(7,563)	(11,412)
Contingent consideration milestone payment	(1,340)	_	_
Other long-term assets and liabilities	(2,014)	(4,130)	6,095
Net cash from operating activities	32,033	49,918	38,972
Cash flows from investing activities			
Acquisition of business, net of cash acquired	_	(44,294)	_
Capital expenditures for property, plant and equipment	(18,997)	(13,592)	(14,665)
Capital expenditures for intangible assets	(1,527)	(1,664)	(2,283)
Asset acquisitions and other investments	(2,400)	(1,448)	474
Net cash from investing activities	(22,924)	(60,998)	(16,474)
Cash flows from financing activities			
Proceeds from issuance of common shares	11,551	7,100	7,783
Payments related to withholdings for share-based compensation	(5,193)	(3,425)	(3,800)
Contingent consideration milestone payment	(13,660)	_	_
Payments related to finance lease obligation	(365)	_	_
Payment of debt issuance costs and other financing activities	(3,021)	(682)	(445)
Net cash from financing activities	(10,688)	2,993	3,538
Effect of exchange rate changes on cash and restricted cash	(207)	(881)	1,180
Net change in cash, cash equivalents, and restricted cash	(1,786)	(8,968)	27,216
Cash, cash equivalents, and restricted cash at the beginning of the year	72,189	81,157	53,941
Cash, cash equivalents, and restricted cash at the end of the year	\$ 70,403	\$ 72,189	\$ 81,157
Components of cash, cash equivalents, and restricted cash at the end of the year			_
Cash and cash equivalents	\$ 69,719	\$ 69,623	\$ 81,157
Restricted cash	684	2,566	_
Cash, cash equivalents, and restricted cash at the end of the year	\$ 70,403	\$ 72,189	\$ 81,157
Supplemental disclosure of cash flow information:			
Noncash investing activities:			
Intangible assets acquired in asset acquisitions	\$ 1,600	\$ 2,015	\$ _
Contingent consideration recognized at acquisition date	_	25,491	_

The accompanying notes form an integral part of these consolidated financial statements

#### **Notes to the Consolidated Financial Statements**

#### **Business and basis of consolidation**

Orthofix Medical Inc. (previously Orthofix International N.V.) and its subsidiaries (the "Company") is a global medical device company focused on musculoskeletal products and therapies. The Company's mission is to improve patients' lives by providing superior reconstruction and regenerative musculoskeletal solutions to physicians worldwide. Headquartered in Lewisville, Texas, the Company has two reporting segments: Global Spine and Global Extremities. Orthofix products are widely distributed via the Company's sales representatives and distributors.

In 2018, the Company completed a change in its jurisdiction of organization from Curação to the State of Delaware (the "Domestication") in accordance with the conversion procedures of Articles 304 and 305 of Book 2 of the Curação Civil Code and the domestication procedures of Section 388 of Delaware General Corporation Law. Upon the effectiveness of the Domestication, each common share of Orthofix International N.V. was automatically converted into one share of common stock of Orthofix Medical Inc. This transaction was accounted for as a transfer of assets and liabilities between entities under common control, similar to a pooling of interest. As a result, the assets and liabilities were carried forward at their historical carrying amounts. The Company's common stock continues to be traded on the Nasdag Global Select Market under the symbol "OFIX."

The consolidated financial statements include the financial statements of the Company and its wholly owned subsidiaries. All intercompany accounts and transactions are eliminated in consolidation.

#### 1. Significant accounting policies

The preparation of financial statements in conformity with United States generally accepted accounting principles ("U.S. GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. On an ongoing basis, we evaluate these estimates, including those related to contractual allowances, doubtful accounts, inventories, goodwill, fair value measurements, litigation and contingent liabilities, income taxes, and share-based compensation. We base our estimates on historical experience, future expectations, and other relevant assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results could differ from those estimates.

Information on our accounting policies and methods used in the preparation of our consolidated financial statements are included, where applicable, in the respective footnotes that follow.

Footnote	Footnote Reference
Recently adopted accounting standards and recently issued accounting pronouncements	2
Acquisitions	3
nventories	4
Property, plant and equipment	5
ntangible assets	6
Goodwill	7
Leases	8
Other current liabilities	9
ong-term debt	10
Fair value measurements and investments	11
Commitments and contingencies	12
Shareholders' equity	13
Revenue recognition and accounts receivable	14
Business segment information	15
Acquisition-related amortization and remeasurement	16
hare-based compensation	17
Defined contribution plans and deferred compensation	18

	Footnote	Footnote Reference
Income taxes		19
Earnings per share		20
Quarterly financial data		21
Subsequent events		22

The following is a discussion of accounting policies and methods used in our consolidated financial statements that are not presented within other footnotes.

#### Prior period reclassifications

Certain amortization expense related to intangible assets previously reported in general and administrative expenses has been reclassified to acquisition-related amortization and remeasurement based on use of the underlying intangible asset. This reclassification resulted in a decrease to general and administrative expense of \$1.3 million for the year ended December 31, 2018.

#### Market risk

In the ordinary course of business, the Company is exposed to the impact of changes in interest rates and foreign currency fluctuations. The Company's objective is to limit the impact of such movements on earnings and cash flows. In order to achieve this objective, the Company seeks to balance its non-U.S. Dollar denominated income and expenditures.

The financial statements for operations outside the United States are generally maintained in their local currency. All foreign currency denominated balance sheet accounts, except shareholders' equity, are translated to U.S. Dollars at year end exchange rates and revenue and expense items are translated at average rates of exchange prevailing during the year. Gains and losses resulting from the translation of foreign currency are recorded in the accumulated other comprehensive income (loss) component of shareholders' equity. Transactional foreign currency gains and losses, including those generated from intercompany operations, are included in other expense, net and were a loss of \$1.4 million, loss of \$3.3 million, and a gain of \$1.9 million for the years ended December 31, 2019, 2018 and 2017, respectively.

#### Financial instruments and concentration of credit risk

Financial instruments that could subject the Company to a concentration of credit risk consist primarily of cash, cash equivalents, restricted cash, and accounts receivable. Generally, cash is held at large financial institutions and cash equivalents consist of highly liquid money market funds. The Company performs ongoing credit evaluations of customers, generally does not require collateral, and maintains a reserve for potential credit losses. The Company believes that a concentration of credit risk related to the accounts receivable is limited because customers are geographically dispersed and end users are diversified across several industries.

Net sales to our customers based in Europe were approximately \$69 million in 2019, which represents a substantial portion of our trade accounts receivable balance as of December 31, 2019. It is at least reasonably possible that changes in global economic conditions and/or local operating and economic conditions in the regions, or other factors, could affect the future realization of these accounts receivable balances.

## Cash, cash equivalents and restricted cash

The Company considers all highly liquid investments with an original maturity of three months or less to be cash equivalents.

Restricted cash as of December 31, 2018 related to a court order affecting the Company's local bank accounts for its office in São Paulo, Brazil, as part of an investigation of more than 30 companies, which resulted in the freezing of approximately \$2.6 million of the Company's cash. On April 3, 2019, the Company's appeal regarding the freezing of its local bank accounts was heard by the Brazil Federal Court of Appeals of Rio de Janeiro, in which the Court ordered the unfreezing of the Company's cash. The cash was then returned without any restrictions in April 2019. As such, this balance was reclassified to cash and cash equivalents during the second quarter of 2019.

In September 2019, approximately \$0.7 million of the Company's cash in Brazil was frozen upon request to satisfy a judgment related to an ongoing legal dispute with a former Brazilian distributor. Although the Company is appealing this judgment, this cash has been reclassified to restricted cash. Refer to Note 12 for further discussion of this matter.

#### Advertising costs

Advertising costs are expensed as incurred. Advertising costs are included within sales and marketing expense and totaled \$0.8 million, \$0.6 million, and \$0.7 million for the years ended December 31, 2019, 2018, and 2017, respectively.

Research and development costs, including in-process research and development ("IPR&D") costs

Expenditures for research and development are expensed as incurred. Expenditures related to the collaborative arrangement with MTF Biologics ("MTF") are expensed based on the terms of the related agreement. No research and development expenditures were incurred for the years ended December 31, 2019 or 2018 under the collaborative arrangement with MTF. Research and development expenditures totaled \$0.9 million for the year ended December 31, 2017 under the arrangement with MTF.

In connection with the Spinal Kinetics Inc. acquisition in 2018, the Company recognized \$26.8 million of IPR&D costs within patents and other intangible assets, net and recorded additional research and development costs to further develop this acquired IPR&D. See Note 6 for further details.

Acquired IPR&D represents the fair value assigned to acquired research and development assets that have not reached technological feasibility. The fair value assigned to acquired IPR&D is determined by estimating the costs to develop the acquired technology into commercially viable products, estimating the resulting revenues from the projects, and discounting the net cash flows to present value. The revenue and cost projections used to value acquired IPR&D are, as applicable, reduced based on the probability of success of developing the asset. Additionally, estimated revenues consider the relevant market sizes and growth factors, expected trends in technology, and the nature and expected timing of new product introductions by the Company and its competitors. The rates utilized to discount the net cash flows to their present value are commensurate with the stage of development of the project and uncertainties in the economic estimates used in the projections. Any future costs to further develop the IPR&D subsequent to acquisition are recorded to research and development expense as incurred. See Note 6 for additional policy discussion related to amortization and impairment testing for IPR&D.

## 2. Recently adopted accounting standards and recently issued accounting pronouncements

Adoption of Accounting Standards Update ("ASU") 2016-02, Leases (Topic 842)

In February 2016, the Financial Accounting Standards Board ("FASB") issued ASU 2016-02, which changes how lessees account for leases. For most leases, the standard requires a liability to be recorded on the balance sheet based on the present value of future lease obligations with a corresponding right-of-use asset. For leases classified as operating leases, the Company is now required to recognize lease costs on a straight-line basis based on the combined amortization of the lease obligation and the right-of-use asset. Other leases are will be accounted for as finance leases, similar to capital leases under the previous accounting standard. Effective January 1, 2019, the Company adopted ASU 2016-02 using a modified retrospective approach. Upon adoption, the Company elected a package of practical expedients permitted within the new standard. The elected practical expedients allow the Company to carry forward its historical lease classification and to not separate and allocate the consideration paid between lease and non-lease components included within a contract. The Company also elected an optional transition method that waives the requirement to apply the ASU to the comparative periods presented within the financial statements in the year of adoption. Therefore, results for reporting periods beginning after January 1, 2019 are presented under Topic 842, while prior period amounts are not adjusted and continue to be reported in accordance with the Company's historic accounting policies under Topic 840. See Note 8 for additional discussion of the Company's adoption of Topic 842 and its lease accounting policies.

Adoption of ASU 2018-02, Income Statement – Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income

In February 2018, the FASB issued ASU 2018-02, which allows entities to reclassify stranded tax effects resulting from the Tax Cuts and Jobs Act (the "Tax Act") from accumulated other comprehensive income (loss) to retained earnings. The Company adopted this guidance effective January 1, 2019, using a modified retrospective approach, which resulted in an increase to accumulated other comprehensive income (loss) and a decrease in retained earnings of \$0.9 million.

#### Adoption of ASU 2014-09, Revenue from Contracts with Customers (Topic 606)

In May 2014, the FASB issued ASU 2014-09. Topic 606 supersedes the revenue recognition requirements in Topic 605, *Revenue Recognition*, and requires entities to recognize revenue when control of the promised goods or services is transferred to customers at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The Company adopted Accounting Standards Codification ("ASC") 606 as of January 1, 2018 using the modified retrospective transition method, which was applied to all contracts. Results for prior period amounts were not adjusted and continue to be reported in accordance with the Company's historic accounting under the previous revenue recognition standard, Topic 605. See Note 14 for further discussion of the Company's revenue recognition policies.

Adoption of ASU 2016-01, Financial Instruments – Overall (Subtopic 825-10), and ASU 2018-03, Technical Corrections and Improvements to Financial Instruments – Overall (Subtopic 825-10)

In January 2016, the FASB issued ASU 2016-01, which was then further clarified in ASU 2018-03, in February 2018. This guidance required entities to measure equity investments at fair value and recognize any changes in fair value in net income. However, for certain equity investments that do not have readily determinable fair values, the new guidance allows companies to measure the investments using a new measurement alternative, which values the investments at cost, less any impairments, plus or minus changes resulting from observable price changes in orderly transactions for identical or similar investments of the same issuer. The Company prospectively adopted both ASU 2016-01 and ASU 2018-03 as of January 1, 2018, and now uses the new measurement alternative for the Company's equity investments in Bone Biologics, Inc. ("Bone Biologics"), which historically had been measured at cost. See Note 11 for further discussion related to our investment in Bone Blologics.

#### Recently issued accounting pronouncements

Topic	Description of Guidance	Effective Date	Status of Company's Evaluation
Financial Instruments - Credit Losses (ASU 2016-13), and subsequent amendments	Requires that credit losses for certain types of financial instruments, including trade accounts receivable, be estimated based on expected losses and also modifies the impairment models for available-for-sale debt securities and for purchased financial assets with credit deterioration since their origination. Applied using a modified retrospective approach, with early adoption permitted.	January 1, 2020	The Company formed an implementation team to evaluate the impact this ASU will have on its consolidated financial statements. Based on its preliminary evaluation, the Company expects to record an increase in its allowance for doubtful accounts of approximately \$1.1 million, an increase in deferred income taxes of approximately \$0.2 million, and a decrease in retained earnings of approximately \$0.9 million. The Company does not expect material impacts to its consolidated statements of operations and comprehensive income (loss) or to its consolidated statements of cash flows.
Goodwill (ASU 2017-04)	Eliminates Step 2 of the current goodwill impairment test, which requires a hypothetical purchase price allocation to measure goodwill impairment. A goodwill impairment loss will instead be measured at the amount by which a reporting unit's carrying value exceeds its fair value, not to exceed the recorded amount of goodwill. Applied on a prospective basis, with early adoption permitted.	January 1, 2020	The Company does not expect this ASU to have a significant impact on its financial statements or disclosures.
	F-12		

Topic	Description of Guidance	Effective Date	Status of Company's Evaluation
Fair value measurement (ASU 2018-13)	Eliminates such disclosures as the amount of and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy and adds new disclosure requirements for Level 3 measurements. Certain of the provisions are to be applied retrospectively with other provisions applied prospectively.	January 1, 2020	The Company does not expect the ASU to have a significant impact on its financial statements, but the ASU may have a significant impact on disclosures for any level 3 assets or liabilities.
Implementation costs in a cloud computing arrangement that is a service contract (ASU 2018-15)	Aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The accounting for the service element of a hosting arrangement that is a service contract is not affected by the amendments in this update. Applied either retrospectively or prospectively to all implementation costs incurred after the date of adoption.	January 1, 2020	The Company plans to adopt this ASU prospectively on January 1, 2020. However, the Company does not expect this ASU to have a material impact to its consolidated financial statements.
Simplifying the accounting for income taxes (ASU 2019-12)	Reduces the complexity of accounting for income taxes by eliminating certain exceptions to the general principles in ASC 740, <i>Income Taxes</i> . Additionally, the ASU simplifies GAAP by amending the requirements related to the accounting for "hybrid" tax regimes and also adding the requirement to evaluate when a step up in the tax basis of goodwill should be considered part of the business combination and when it should be considered a separate transaction. Certain of the provisions are to be applied retrospectively with other provisions applied prospectively.	January 1, 2021	The Company is currently evaluating the impact this ASU may have on its consolidated financial statements.

## 3. Acquisitions

On April 30, 2018, the Company completed the acquisition of Spinal Kinetics Inc. ("Spinal Kinetics"), a privately held developer and manufacturer of artificial cervical and lumbar discs for \$45.0 million in net cash, subject to certain adjustments, plus potential milestone payments of up to \$60.0 million in cash. The results of operations for Spinal Kinetics have been included in the Company's financial results since the acquisition date, April 30, 2018.

The fair value of the consideration transferred was \$76.6 million, which consisted of the following:

## (U.S. Dollars, in thousands)

Fair value of consideration transferred	
Cash paid	\$ 51,109
Contingent consideration	25,491
Total fair value of consideration transferred	\$ 76,600

The contingent consideration consists of potential future milestone payments of up to \$60.0 million in cash. The milestone payments include (i) up to \$15.0 million if the U.S. Food and Drug Administration (the "FDA") grants approval of Spinal Kinetics' M6-C artificial cervical disc (the "FDA Milestone") and (ii) revenue-based milestone payments of up to \$45.0 million in connection with future sales of the M6-C artificial cervical disc and the M6-L artificial lumbar disc. Milestones must be achieved within five years of the Acquisition Date to trigger applicable payments. Refer to Note 11 for further discussion of the valuation of the contingent milestone payments.

The following table summarizes the fair values of assets acquired and liabilities assumed at the acquisition date:

(U.S. Dollars, in thousands)	Preliminary Acquisition Date Fair Value as Previously Reported		Adjustments		Final Acquisition Date Fair Value		Assigned Useful Life
Assets acquired		-	_				
Cash and cash equivalents	\$	6,785	\$	_	\$	6,785	
Restricted cash		30		_		30	
Trade accounts receivable		1,705		_		1,705	
Inventories		8,175		_		8,175	
Prepaid expenses and other current assets		315		_		315	
Property, plant and equipment		2,285		_		2,285	
Other long-term assets		320		_		320	
Developed technology		12,400		_		12,400	10 years
In-process research and development ("IPR&D")		26,800		_		26,800	Indefinite
Tradename		100		_		100	2 years
Deferred income taxes		2,374		1,220		3,594	
Total identifiable assets acquired	\$	61,289	\$	1,220	\$	62,509	_
Liabilities assumed							
Trade accounts payable	\$	351	\$	_	\$	351	
Other current liabilities		2,873		(4)		2,869	
Other long-term liabilities		301				301	
Total liabilities assumed		3,525		(4)		3,521	
Goodwill		18,836		(1,224)		17,612	
Total fair value of consideration transferred	\$	76,600	\$		\$	76,600	

The \$17.6 million of goodwill recognized was assigned to the Global Spine reporting segment.

On February 6, 2019, the Company obtained FDA approval of the M6-C artificial cervical disc for patients suffering from cervical disease degeneration. Following FDA approval, the Company transferred \$26.8 million from IPR&D to developed technology, and began amortization over 10 years.

The Company did not recognize any acquisition related costs during the year ended December 31, 2019 and recorded \$3.3 million and \$0.8 million of acquisition related costs during the years ended December 31, 2018 and December 31, 2017, respectively, within general and administrative expenses. The Company's results of operations included net sales of \$12.4 million and \$8.7 million related to Spinal Kinetics for the years ended December 31, 2019 and 2018, respectively. Additionally, the Company's results of operations included net losses of \$9.3 million and \$5.8 million related to Spinal Kinetics for the years ended December 31, 2019 and 2018, respectively.

## Options Medical, LLC Asset Acquisition

On January 31, 2019, the Company acquired certain assets of Options Medical, LLC ("Options Medical"), a medical device distributor based in Florida. Under the terms of the acquisition, the parties agreed to terminate an existing exclusive sales representative agreement, employees of Options Medical became employees of the Company, and the Company acquired all customer lists and customer information related to the sale of the Company's products. As consideration for the assets acquired, the Company paid \$6.4 million. The following table summarizes the fair values of assets acquired and liabilities assumed at the acquisition date:

(U.S. Dollars, in thousands)	Fai	Fair Value Balance Sheet Classific		Assigned Useful Life
Assets acquired				
Operating lease assets	\$	175	Other long-term assets	
Customer relationships		5,832	Intangible assets, net	10 years
Assembled workforce		568	Intangible assets, net	5 years
Total identifiable assets acquired	\$	6,575		
Liabilities assumed				
Operating lease liability - short-term	\$	69	Other current liabilities	
Operating lease liability - long-term		106	Other long-term liabilities	
Total liabilities assumed		175		
Total fair value of consideration transferred	\$	6,400		

#### 4. Inventories

Inventories are valued at the lower of cost or estimated net realizable value, after provision for excess, obsolete or impaired items, which is reviewed and updated on a periodic basis by management. For inventory procured or produced, whether internally or through contract manufacturing arrangements, at our manufacturing facility in Italy, cost is determined on a weighted-average basis, which approximates the first-in, first-out ("FIFO") method. For inventory procured or produced, whether internally or through contract manufacturing arrangements, at our manufacturing facilities in Texas and California, standard costs, which approximates actual cost on the FIFO method, is used to value inventory. Standard costs are reviewed annually by management, or more often in the event circumstances indicate a change in cost has occurred.

Work-in-process, finished products, and field/consignment inventory include material, labor and production overhead costs. Field/consignment inventory represents immediately saleable finished products inventory that is in the possession of the Company's independent sales representatives or located at third party customers, such as distributors and hospitals.

	December 31,				
(U.S. Dollars, in thousands)	2019		2018		
Raw materials	\$ 9,587	\$	8,463		
Work-in-process	14,027		13,478		
Finished products	20,712		18,244		
Field/consignment	38,071		36,662		
Inventories	\$ 82,397	\$	76,847		

The Company adjusts the value of its inventory to the extent management determines that the cost cannot be recovered due to obsolescence or other factors. In order to make these determinations, management uses estimates of future demand and sales prices for each product to determine the appropriate inventory reserves and to make corresponding adjustments to the carrying value of these inventories to reflect the lower of cost or market value.

#### 5. Property, plant and equipment

Property, plant and equipment is stated at cost less accumulated depreciation, or when acquired as part of a business combination, at estimated fair value. Costs include all expenditures necessary to place the asset in service, generally including freight and sales and use taxes. Property, plant and equipment includes instrumentation held by customers, which is generally used to facilitate the implantation of the Company's products.

The useful lives of these assets are generally as follows:

	Years
Buildings	25 to 33
Plant and equipment	1 to 10
Instrumentation	3 to 4
Computer software	3 to 7
Furniture and fixtures	4 to 8

The Company evaluates the useful lives of these assets on an annual basis. Depreciation is computed on a straight-line basis over the useful lives of the assets. Depreciation of leasehold improvements is computed over the shorter of the lease term or the useful life of the asset. Total depreciation expense was \$17.7 million, \$15.9 million and \$18.3 million for the years ended December 31, 2019, 2018 and 2017, respectively.

Expenditures for maintenance and repairs and minor renewals and improvements, which do not extend the lives of the respective assets, are expensed as incurred. All other expenditures for renewals and improvements are capitalized. The assets and related accumulated depreciation are adjusted for property retirements and disposals, with the resulting gain or loss included in earnings. Fully depreciated assets remain in the accounts until retired from service.

		December 31,					
(U.S. Dollars, in thousands)		2019		2018			
Cost							
Buildings	\$	3,731	\$	3,746			
Plant and equipment		46,470		45,744			
Instrumentation		82,327		75,542			
Computer software		49,696		47,322			
Furniture and fixtures		7,328		6,599			
Construction in progress		2,201		2,909			
Finance lease assets		21,179		_			
Property, plant, and equipment, gross		212,932		181,862			
Accumulated depreciation		(150,205)		(139,027)			
Property, plant, and equipment, net	\$	62,727	\$	42,835			

The Company capitalizes system development costs related to internal-use software during the application development stage. Costs related to preliminary project activities and post-implementation activities are expensed as incurred. Internal-use software is amortized on a straight-line basis over its estimated useful life, generally three to seven years.

During the first quarter of 2019, the Company entered into an amendment for its corporate headquarters lease. As a result, the classification of this lease changed from an operating lease to a finance lease. This resulted in an increase to both the lease liability and lease asset of approximately \$8.0 million, when compared to the original operating lease assets and liabilities recorded upon the adoption of ASU 2016-02.

Long-lived assets are evaluated for impairment whenever events or changes in circumstances have occurred that would indicate impairment. For purposes of the evaluation, the Company groups its long-lived assets with other assets and liabilities at the lowest level of identifiable cash flows if the asset does not generate cash flows independent of other assets and liabilities. If the carrying value of the asset group exceeds the undiscounted cash flows expected to result from the use and eventual disposition of the asset group, the Company will write the carrying value down to the fair value in the period identified.

The Company generally determines fair value of long-lived assets as the present value of estimated future cash flows. In determining the estimated future cash flows associated with the assets, the Company uses estimates and assumptions about future revenue contributions, cost structures and remaining useful lives of the asset group. The use of alternative assumptions, including estimated cash flows, discount rates, and alternative estimated remaining useful lives could result in different calculations of impairment.

#### 6. Intangible assets

Intangible assets are recorded at cost, or when acquired as a part of a business combination, at estimated fair value. These assets are amortized on a straight-line basis over the useful lives of the assets.

		Decem	December 31,	
Weighted Average Amortization Period		2019		2018
10 years	\$	42,034	\$	39,085
10 years		39,200		12,400
Indefinite		_		26,800
9 years		7,430		_
7 years		15,960		14,654
10 years		942		840
9 years		105,566		93,779
	\$	(38,246)	\$	(35,016)
		(4,523)		(827)
		(535)		_
		(7,701)		(5,744)
		(422)		(295)
		(51,427)		(41,882)
	\$	54,139	\$	51,897
	Amortization Period  10 years 10 years Indefinite 9 years 7 years 10 years	Amortization Period  10 years \$ 10 years Indefinite 9 years 7 years 10 years 9 years	Weighted Average Amortization Period         2019           10 years         \$ 42,034           10 years         39,200           Indefinite         —           9 years         7,430           7 years         15,960           10 years         942           9 years         105,566           \$ (38,246)         (4,523)           (535)         (7,701)           (422)         (51,427)	Weighted Average Amortization Period         2019           10 years         \$ 42,034 \$ \$ 10 years         \$ 39,200             Indefinite         —         —           9 years         7,430           7 years         15,960             10 years         942           9 years         105,566             \$ (38,246) \$ (4,523)           \$ (4,523)           (535)           (7,701)             (422)           (51,427)           (51,427)           (51,427)

Intangible assets related to IPR&D projects are considered to be indefinite-lived until the completion or abandonment of the associated research and development efforts. During the period the assets are considered indefinite-lived, they are not amortized but tested for impairment. Impairment testing is performed at least annually or when a triggering event occurs that could indicate a potential impairment. If and when development is complete, which generally occurs when regulatory approval to market a product is obtained, the associated assets are deemed finite-lived and are amortized over a period that best reflects the economic benefits provided by these assets. On February 6, 2019, the Company obtained FDA approval of the M6-C artificial cervical disc for patients suffering from cervical disease degeneration. Following FDA approval, the Company transferred \$26.8 million from IPR&D to developed technology, and began amortization over 10 years.

Amortization expense for intangible assets was \$7.0 million, \$2.7 million and \$1.8 million for the years ended December 31, 2019, December 31, 2018 and 2017, respectively. Future amortization expense for intangible assets is estimated as follows:

(U.S. Dollars, in thousands)	Amortization	n
2020	\$	7,420
2021		7,317
2022		7,337
2023		6,668
2024		5,799
Thereafter		19,598
Total	\$	54,139

#### 7. Goodwill

The Company tests goodwill at least annually for impairment. The Company tests more frequently if indicators are present or changes in circumstances suggest that impairment may exist. These indicators include, among others, declines in sales, earnings or cash flows, or the development of a material adverse change in the business climate. The Company assesses goodwill for impairment at the reporting unit level, which is defined as an operating segment or one level below an operating segment.

As part of the change in reporting segments, which occurred during the first quarter of 2019, the Company performed a quantitative assessment of goodwill immediately prior to and subsequently following the change in reporting segments. The analysis did not result in an impairment. In addition, the net carrying value of goodwill that was previously reported under the prior reporting segments of (i) Bone Growth Therapies, (ii) Spinal Implants, and (iii) Biologics has been consolidated and is now included within the Global Spine reporting segment.

At the beginning of the fourth quarters of 2019 and 2018, the Company performed a qualitative assessment for its annual goodwill impairment analysis, which did not result in impairment. This qualitative analysis considers all relevant factors specific to the reporting units, including macroeconomic conditions, industry and market considerations, overall financial performance, and relevant entity-specific events.

The following table presents the net carrying value of goodwill, and a rollforward of such balances from December 31, 2018, by reportable segment:

(U.S. Dollars, in thousands)	Decen	nber 31, 2018	Adjustments	Dec	ember 31, 2019
Global Spine	\$	72,401	\$ (1,224)	\$	71,177
Global Extremities		_	_		_
Goodwill	\$	72,401	\$ (1,224)	\$	71,177

#### 8. Leases

As discussed in Note 2, the Company adopted ASU No. 2016-02—*Leases* (Topic 842), as of January 1, 2019, using the modified retrospective approach. Adoption of the new standard resulted in the recognition of operating lease assets and lease liabilities of \$20.2 million and \$20.5 million, respectively, as of January 1, 2019. The difference between the lease assets and lease liabilities, net of the deferred tax impact, and the elimination of historical prepaid or deferred rent, was recorded as an adjustment to retained earnings. The net impact of adoption to the Company's balance sheet as of January 1, 2019 is presented in the table below. The standard did not have a material impact to the Company's consolidated statements of operations and comprehensive income (loss) or cash flows.

	_			Impact of Adoption		January 1,
(U.S. Dollars, in thousands) Assets	Dece	mber 31, 2018		of ASC 842		2019
Current assets						
Cash, cash equivalents, and restricted cash	\$	72,189	\$	_	\$	72,189
Accounts receivable, net	Ş	72,189	Ş	<u> </u>	Ş	72,189
Inventories		,		_		76,847
		76,847		(15)		
Prepaid expenses and other current assets		17,856		(15)		17,841
Total current assets		244,639		(15)		244,624
Property, plant, and equipment, net		42,835		_		42,835
Intangible assets, net and goodwill		124,298		_		124,298
Deferred income taxes		33,228		71		33,299
Other long-term assets		21,641		20,209		41,850
Total assets	\$	466,641	\$	20,265	\$	486,906
Liabilities and shareholders' equity						
Current liabilities						
Accounts payable	\$	17,989	\$	_	\$	17,989
Other current liabilities		67,919		2,166		70,085
Total current liabilities		85,908		2,166		88,074
Other long-term liabilities		45,336		18,028		63,364
Total liabilities	\$	131,244	\$	20,194	\$	151,438
Shareholders' equity		,				
Common shares		1,858		_		1,858
Additional paid-in capital		243,165		_		243,165
Retained earnings		87,078		71		87,149
Accumulated other comprehensive income		3,296		_		3,296
Total shareholders' equity		335,397		71		335,468
Total liabilities and shareholders' equity	\$	466,641	\$	20,265	\$	486,906

The Company determines if an arrangement is a lease at inception. The Company's leases primarily relate to facilities, vehicles, and equipment. Lease assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the obligation to make lease payments arising from the lease. Lease assets and liabilities are recognized at commencement date based on the present value of lease payments over the lease term. As the Company's leases do not provide an implicit rate, the Company's incremental borrowing rate is used as a discount rate, based on the information available at the commencement date, in determining the present value of lease payments. Lease assets also include the impact of any prepayments made and are reduced by impact of any lease incentives.

The Company has made an accounting policy election for short-term leases, in that the Company does not recognize a lease liability or lease asset on the balance sheet for leases with a lease term of twelve months or less as of the commencement date. Rather, any short-term lease payments are recognized as an expense on a straight-line basis over the lease term. The current period short-term lease expense reasonably reflects our short-term lease commitments.

The Company has made a policy election for all classifications of leases to combine lease and nonlease components and to account for them as a single lease component. Variable lease payments are excluded from the lease liability and recognized in the period in which the obligation is incurred. Additionally, lease terms may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise the option.

During the first quarter of 2019, the Company entered into an amendment for its corporate headquarters lease. As a result, the classification of this lease changed from an operating lease to a finance lease, resulting in an increase to both the lease liability and lease asset of approximately \$8.0 million.

A summary of the Company's lease portfolio as of December 31, 2019 is presented in the table below:

U.S. Dollars, in thousands, except lease term and discount rate) Classification		December 31, 201		
Assets			_	
Operating leases	Other long-term assets	\$	5,798	
Finance leases	Property, plant and equipment, net		20,207	
Total lease assets		\$	26,005	
Liabilities			_	
Current				
Operating leases	Other current liabilities	\$	1,875	
Finance leases	Current portion of finance lease liability		323	
Long-term				
Operating leases	Other long-term liabilities		4,084	
Finance leases	Long-term portion of finance lease liability		20,648	
Total lease liabilities		\$	26,930	
Weighted Average Remaining Lease Term				
Operating leases			4.2 years	
Finance leases			20.7 years	
Weighted Average Discount Rate				
Operating leases			2.33%	
Finance leases			4.38%	

The components of lease costs were as follows:

(U.S. Dollars, in thousands)	For the Year Ended December 31, 2019		
Finance lease costs:			
Amortization of right-of-use assets	\$	972	
Interest on finance lease liabilities		919	
Operating lease costs		2,161	
Short-term lease costs		255	
Variable lease costs		749	
Total lease costs	\$	5,056	

Supplemental cash flow information related to leases was as follows:

(U.S. Dollars, in thousands)	For the Year End	ed December 31, 2019
Cash paid for amounts included in the measurement of lease liabilities		
Operating cash flows from operating leases	\$	4,075
Operating cash flows from finance leases		919
Financing cash flows from finance leases		365
Right-of-use assets obtained in exchange for lease obligations		
Operating leases		878
Finance leases		21,179

A summary of the Company's remaining lease liabilities as of December 31, 2019 is included below:

	C	Operating	Finance
(U.S. Dollars, in thousands)		Leases	Leases
2020	\$	1,979	\$ 1,013
2021		1,758	1,414
2022		1,409	1,442
2023		259	1,471
2024		143	1,501
Thereafter		686	25,706
Total undiscounted value of lease liabilities		6,234	32,547
Less: Interest		(275)	(11,576)
Present value of lease liabilities	\$	5,959	\$ 20,971
Current portion of lease liabilities	\$	1,875	\$ 323
Long-term portion of lease liabilities		4,084	20,648
Total lease liabilities	\$	5,959	\$ 20,971

#### Other current liabilities

	December 31,						
(U.S. Dollars, in thousands)		2019		2018			
Accrued expenses	\$	5,571	\$	6,206			
Salaries, bonuses, commissions and related taxes payable		14,008		21,608			
Accrued distributor commissions		12,286		10,073			
Accrued legal and settlement expenses		9,227		4,196			
Contingent consideration liability		14,700		13,600			
Short-term operating lease liability		1,875		_			
Non-income taxes payable		4,021		3,638			
Other payables		2,986		8,598			
Other current liabilities	\$	64,674	\$	67,919			

In December 2019, the Company approved and initiated a targeted restructuring plan in the U.S. to streamline costs and to better align talent with the Company's strategic initiatives. The plan consists primarily of the realignment of certain personnel, representing an extremely limited number of positions, which will require severance payments. As of December 31, 2019, the Company recorded a liability of \$3.2 million in connection with this activity, all of which was recognized in 2019 within general and administrative expenses.

#### 10. Long-term debt

On October 25, 2019, the Company, and certain of its wholly-owned subsidiaries (collectively with the Company, the "Borrowers"), as borrowers, and certain material subsidiaries of the Company as guarantors, entered into a Second Amended and Restated Credit Agreement (the "Amended Credit Agreement") with JPMorgan Chase Bank, N.A. ("JPMorgan"), as Administrative Agent, and certain lender parties thereto. The Amended Credit Agreement provides for a \$300 million secured revolving credit facility (the "Facility") amending and restating the \$125 million secured revolving credit facility that previously existed with such lenders. The Credit Agreement has a maturity date of October 25, 2024. As of December 31, 2019, the Company has no borrowings outstanding under the Credit Agreement.

Borrowings under the Amended Credit Agreement may be used for, among other things, working capital and other general corporate purposes of the Company and its subsidiaries (including permitted acquisitions and permitted payments of dividends and other distributions). The Facility is available in U.S. Dollars with up to \$150 million of the Facility available to be borrowed in Euros and British Pounds (the "Agreed Currencies"). The Facility further permits up to \$50 million of the Facility to be utilized for the issuance of letters of credit in the Agreed Currencies. The Borrowers have the ability to increase the amount of the Facility, which increases may take the form of increases to the revolving credit commitments or the issuance of new term A loans, by an aggregate amount of up to the greater of \$150 million or an incremental amount such that the total amount of the Facility does not exceed 350% of consolidated EBITDA of the Company (as determined for the four fiscal quarter period most recently ended for which financial statements are available), upon satisfaction of customary conditions precedent for such increases or incremental loans and receipt of additional commitments by one or more existing or new lenders.

Borrowings under the Facility bear interest at a floating rate, which is, at the Borrowers' option, either LIBOR, or possibly an alternative reference rate to be used in place of LIBOR upon the occurrence of a benchmark transition event, plus an applicable margin ranging from 1.25% to 2.25% or a base rate plus an applicable margin ranging from 0.25% to 1.25% (in each case subject to adjustment based on the Company's total leverage ratio). An unused fee ranging from 0.15% to 0.25% (subject to adjustment based on the Company's total leverage ratio) is payable quarterly in arrears based on the daily amount of the undrawn portion of each lender's revolving credit commitment under the Facility. Fees are payable on outstanding letters of credit at a rate equal to the applicable margin for LIBOR loans, plus certain customary fees payable solely to the issuer of the letter of credit.

Certain of the Company's existing and future material subsidiaries (collectively, the "Guarantors") are required to guarantee the repayment of the Borrowers' obligations under the Amended Credit Agreement. The obligations of the Borrowers and each of the Guarantors with respect to the Amended Credit Agreement are secured by a pledge of substantially all of the personal property assets of the Borrowers and each of the Guarantors, including accounts receivables, deposit accounts, intellectual property, investment property, inventory, equipment and equity interests in their respective subsidiaries.

The Amended Credit Agreement contains customary affirmative and negative covenants, including limitations on the Company's and its subsidiaries ability to incur additional debt, grant or permit additional liens, make investments and acquisitions, merge or consolidate with others, dispose of assets, pay dividends and distributions, pay subordinated indebtedness and enter into affiliate transactions. In addition, the Amended Credit Agreement contains financial covenants requiring the Company on a consolidated basis to maintain, as of the last day of any fiscal quarter, a total net leverage ratio of not more than 3.5 to 1.0 (which ratio can be permitted to increase to 4.0 to 1.0 for no more than 4 fiscal quarters following a material acquisition) and an interest coverage ratio of at least 3.0 to 1.0. The Amended Credit Agreement also includes events of default customary for facilities of this type and upon the occurrence of such events of default, subject to customary cure rights, all outstanding loans under the Facility may be accelerated and/or the lenders' commitments terminated. The Credit Agreement also includes events of default customary for facilities of this type, and upon the occurrence of such events of default, subject to customary cure rights, all outstanding loans under the Facility may be accelerated and/or the lenders' commitments terminated. The Company is in compliance with all required financial covenants as of December 31, 2019.

In conjunction with obtaining the Facility, the Company has paid \$1.5 million in debt issuance costs and has capitalized a total of \$1.8 million associated with the Facility. These costs are being amortized over the life of the Facility. The debt issuance costs are included in other long-term assets, net of accumulated amortization. As of December 31, 2019 and December 31, 2018, debt issuance costs, net of accumulated amortization, were \$1.7 million and \$0.6 million, respectively. Debt issuance costs amortized or expensed totaled \$0.4 million, \$0.4 million, and \$1.0 million for the years ended December 31, 2019, 2018, and 2017, respectively.

The Company has an unused available line of credit of €5.5 million (\$6.2 million and \$6.3 million) at December 31, 2019 and 2018, respectively, in its Italian line of credit. This unsecured line of credit provides the Company the option to borrow amounts in Italy at interest rates determined at the time of borrowing.

The Company paid cash related to interest of \$0.8 million, \$0.8 million, and \$0.8 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### 11. Fair value measurements and investments

Fair value is defined as the price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

Non-financial assets and liabilities of the Company measured at fair value include any long-lived assets that are impaired in a currently reported period or equity securities measured at observable prices in orderly transactions. The authoritative guidance also describes three levels of inputs that may be used to measure fair value:

- Level 1: quoted prices in active markets for identical assets and liabilities
- Level 2: observable inputs other than quoted prices in active markets for identical assets and liabilities
- Level 3: unobservable inputs in which there is little or no market data available, which require the reporting entity to develop its own assumptions

The Company's financial instruments include cash equivalents, restricted cash, collective trust funds, treasury securities, trade accounts receivable, accounts payable, long-term secured debt, equity warrants, equity securities, available for sale debt securities, contingent consideration and deferred compensation plan liabilities. The carrying value of cash equivalents, restricted cash, trade accounts receivable and accounts payable approximate fair value due to the short-term maturities of these instruments. The Company's credit facilities carry a floating rate of interest, and therefore, the carrying value of long-term debt is considered to approximate the fair value.

The Company's collective trust funds, treasury securities, equity warrants, equity securities, debt security, contingent consideration, and deferred compensation plan liabilities are the only financial instruments recorded at fair value on a recurring basis as follows:

	December 31,			
(U.S. Dollars, in thousands)	2019	Level 1	 Level 2	 Level 3
Assets				
Equity securities	\$ 219	\$ _	\$ 219	\$ _
Total	\$ 219	\$ _	\$ 219	\$ _
Liabilities				
Contingent consideration	\$ (42,700)	\$ _	\$ _	\$ (42,700)
Deferred compensation plan	(1,255)	_	(1,255)	_
Total	\$ (43,955)	\$ _	\$ (1,255)	\$ (42,700)

		Balance cember 31,			
(U.S. Dollars, in thousands)	50,	2018	Level 1	Level 2	Level 3
Assets					
Treasury securities	\$	490	\$ 490	\$ _	\$ _
Equity securities		219	_	219	_
Debt security		17,820	_	_	17,820
Total	\$	18,529	\$ 490	\$ 219	\$ 17,820
Liabilities			_	 _	 
Contingent consideration		(28,560)	_	_	(28,560)
Deferred compensation plan	\$	(1,275)	\$ _	\$ (1,275)	\$ _
Total	\$	(29,835)	\$ _	\$ (1,275)	\$ (28,560)

The fair value of treasury securities was determined based on quoted prices in active markets for identical assets, therefore, the Company categorized these instruments as Level 1 financial instruments.

The fair value of the Company's collective trust funds, equity warrants, equity securities, and deferred compensation plan liabilities are determined based on inputs that are readily available in public markets or can be derived from information available in publicly quoted markets; therefore, the Company has categorized these instruments as Level 2 financial instruments.

#### **Equity Warrants and Securities**

The Company holds investments in common stock and warrants to purchase shares of common stock of Bone Biologics. The Company's common stock investments are recorded within other long-term assets although the fair value of the warrants was reduced to zero in 2018. The equity securities are considered investments that do not have readily determinable fair values. As such, the Company measures these investments at cost, less any impairments, plus or minus changes resulting from observable price changes in orderly transactions for identical or similar investments of the same issuer. In 2018, Bone Biologics completed a series of equity financing activities, which provided a new observable price change in an orderly transaction. As a result, the Company determined its investment was impaired and recorded a charge of \$4.4 million in other expense, net.

As of December 31, 2019, the Company holds common stock of Bone Biologics and warrants to purchase approximately 13 thousand shares at a weighted average exercise price of \$10.00 per share (after adjusting the shares and exercise price for a reverse stock split executed by Bone Biologics in 2018). Under the terms of the warrant purchase agreements, the warrants to purchase common stock in Bone Biologics are exercisable over a seven year period, which expires in 2020, and are transferable by the holder to other parties.

The changes in valuation of these securities for the years ended December 31, 2019, 2018, and 2017 are shown below:

(U.S. Dollars, in thousands)	2019	2018	2017
Equity securities and warrants at January 1	\$ 219	\$ 2,768	\$ 2,768
Impact of adoption of ASU 2016-01 recognized in other income	_	1,629	_
Purchase of additional common stock	_	500	_
Fair value adjustments, expirations, and impairments recognized in other expense	_	(4,678)	_
Equity securities and warrants at December 31	\$ 219	\$ 219	\$ 2,768

#### **Debt Security**

Until October of 2019, the Company held a debt security of eNeura, Inc. ("eNeura"), a privately held medical technology company that is developing devices for the treatment of migraines. The principal amount of the debt security was \$15.0 million and accrued interest at 8.0%, with payment due at maturity. The debt security was originally set to mature on March 4, 2019. On March 1, 2019, the Company entered into an Amended and Restated Senior Secured Promissory Note with eNeura (the "Restructured Debt Security") to restructure the debt security, which extended the maturity date to the earlier of (i) March 4, 2022, (ii) the effective date of a change in control, or (iii) the effective date of an initial public offering by eNeura, and which also eliminated the conversion feature included within the original note. As consideration for the extension, eNeura issued to the Company a Warrant to Purchase Common Stock (the "Warrant"), exercisable at \$0.01 per share over a ten year contractual term, for a number of shares equal to 10% of the sum of the outstanding principal and accrued interest on the Amended and Restated Debt Security as of March 1, 2019, divided by \$1.00 (subject to certain anti-dilution provisions).

Prior to the restructuring, the debt security was accounted for as an available for sale debt security at fair value and included within other long-term assets. The fair value was based upon significant unobservable inputs, including the use of a discounted cash flow model and assumptions regarding the expected payback period for the debt security, requiring the Company to develop its own assumptions; therefore, the Company had categorized this asset as a Level 3 financial asset. The Company evaluated any declines in fair value, if any, each quarter to determine if impairments are other-than-temporary. The debt security had an amortized cost basis of \$9.0 million at the time of the restructuring and as of December 31, 2018.

Subsequent to the restructuring, the debt security was no longer classified as an available for sale debt security, but rather as a held to maturity debt security. The debt security was reclassified from an available for sale debt security to a held to maturity debt security at its fair value on the date of the restructuring. As a result, the unrealized gains included in accumulated other comprehensive income (loss) related to the debt security were to be subsequently amortized to interest income over the remaining term of the Restructured Debt Security.

The Warrant was recorded at fair value and included in other long-term assets. The fair value of the Warrant was based on significant unobservable inputs, including the use of a discounted cash flow model and an option-pricing model, requiring the Company to develop its own assumptions; therefore, the Company categorized this asset as a Level 3 financial asset. The Warrant was considered an investment that does not have a readily determinable fair value. As such, the Company measured the Warrant at cost, less any impairments, plus or minus changes resulting from observable price changes in orderly transactions for identical or similar investments of the same issuer.

During the quarter ended September 30, 2019, the Company engaged in negotiations with eNeura to settle the Restructured Debt Security and on October 25, 2019, the Company and eNeura settled the Restructured Debt Security for a \$4.0 million cash payment and agreed to transfer the Warrant to eNeura. As such, the Company determined the Restructured Debt Security and Warrant were impaired and adjusted the carrying value of the Restructured Debt Security to \$4.0 million, its settlement value, by recording a net other-than-temporary impairment of \$6.5 million in other expense, net, which included a reclassification of the related unrealized gains included in accumulated other comprehensive income (loss) of \$5.2 million.

The following table provides a reconciliation of the beginning and ending balances for debt securities measured at fair value using significant unobservable inputs (Level 3):

(U.S. Dollars, in thousands)	2019	2018	2017
Balance at January 1	\$ 17,820	\$ 16,050	\$ 12,220
Gains (losses) recorded for the period			
Recognized in other expense, net	_	_	(5,585)
Recognized in other comprehensive income (loss)	(2,593)	1,770	9,415
Change in classification of debt security to held to maturity	(15,227)	_	_
Issuance of Warrant as consideration for extension	491	_	_
Impairment of Warrant	(491)	_	_
Balance at December 31	\$ 	\$ 17,820	\$ 16,050

#### **Contingent Consideration**

Contingent consideration consists of potential future milestone payments of up to \$60.0 million in cash associated with the Spinal Kinetics acquisition. The milestone payments include (i) up to \$15.0 million upon FDA approval of the M6-C artificial cervical disc (the "FDA Milestone") and (ii) revenue-based milestone payments of up to \$45.0 million in connection with future sales of the acquired artificial discs (the "Revenue Milestones"). Milestones must be achieved within five years of April 30, 2018 to trigger applicable payments.

On February 6, 2019, the Company obtained FDA approval of the M6-C artificial cervical disc. This approval triggered the Company's payment obligation of \$15.0 million for the achievement of the FDA Milestone, which was paid on February 14, 2019. Prior to its payment, the Company estimated the fair value of the FDA Milestone using a probability-weighted discounted cash flow model. The fair value was based on significant unobservable inputs and thus represented a Level 3 measurement. The key assumptions affecting the fair value of the milestone payment included the Company's estimation of the timing and probability of FDA approval.

The Company estimates the fair value of the Revenue Milestones using a Monte Carlo simulation. This fair value measurement is based on significant unobservable inputs and thus represents a Level 3 measurement. The key assumptions in applying the Monte Carlo valuation model include the Company's forecasted future revenues for Spinal Kinetics products, the discount rates applied, and assumptions for potential volatility of forecasted revenue. Significant changes in these assumptions could result in a significantly higher or lower fair value. As of December 31, 2019, the estimated fair value of the remaining Revenue Milestones was \$42.7 million; however, the actual amount ultimately paid could be higher or lower than this amount. As of December 31, 2019, the Company has classified \$14.7 million of the liability within other current liabilities, as the Company expects to pay one of the Revenue Milestones in the next twelve months, and the remaining \$28.0 million within other long-term liabilities.

Any changes in fair value related to contingent consideration are recorded as an operating expense and included within acquisition-related amortization and remeasurement. The following table provides a reconciliation of the beginning and ending balances for the contingent consideration measured at fair value using significant unobservable inputs (Level 3):

(U.S. Dollars, in thousands)	2019	2018
Contingent consideration at January 1	\$ 28,560	\$ _
Acquisition date fair value	_	25,491
Increase in fair value recognized in acquisition-related amortization and remeasurement	29,140	3,069
Payment made	(15,000)	_
Contingent consideration at December 31	\$ 42,700	\$ 28,560

The \$29.1 million increase in fair value in 2019 is primarily attributable to a change in management's forecast of future net sales of the artificial discs, including an acceleration of the expected timing of such future sales, subsequent to the Company's launch of the product in the U.S. market upon receiving FDA approval.

#### 12. Commitments and Contingencies

#### Contingencies policy

The Company records accruals for certain outstanding legal proceedings, investigations or claims when it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. The Company evaluates, on a quarterly basis, developments in legal proceedings, investigations and claims that could affect the amount of any accrual, as well as any developments that would make a loss contingency both probable and reasonably estimable. When a loss contingency is not both probable and reasonably estimable, the Company does not accrue the loss. However, if the loss (or an additional loss in excess of the accrual) is at least a reasonable possibility and material, then the Company discloses a reasonable estimate of the possible loss or range of loss, if such reasonable estimate can be made. If the Company cannot make a reasonable estimate of the possible loss, or range of loss, then that is disclosed. In addition, legal fees and other directly related costs are expensed as incurred.

In addition to the matters described in the paragraphs below, in the normal course of its business, the Company is involved in various lawsuits from time to time and may be subject to certain other contingencies. The Company believes any losses related to these matters are individually and collectively immaterial as to a possible loss and range of loss.

#### January 2017 SEC Settlements

In January 2017, the SEC approved the Company's offers of settlement in connection with the SEC's investigations of accounting matters leading to the Company's prior restatement of financial statements and the Company's review of improper payments with respect to its subsidiary in Brazil. The settlements approved by the SEC resolved these two matters, and included payments totaling \$14.4 million to the SEC of amounts previously accrued and funded into escrow during 2016. In addition, in 2017, the Company received a favorable insurance settlement of approximately \$6 million associated with prior costs incurred related to these matters, which was recognized within general and administrative expenses.

#### Discontinued Operations – Matters Related to Breg and Indemnification Obligations

On May 24, 2012, the Company sold Breg, Inc. ("Breg"), a former subsidiary, to an affiliate of Water Street Healthcare Partners II, L.P. ("Water Street"). Under the terms of the agreement, the Company indemnified Water Street and Breg with respect to certain specified matters. In May 2018, Breg settled and resolved a post-close cold therapy claim in California state court. Pursuant to the Company's indemnification obligation, the Company made a final payment to its insurer in the amount of \$1.7 million to help fund the Breg settlement. Charges incurred as a result of this indemnification were reflected as discontinued operations in our consolidated statements of operations and comprehensive income (loss). The Company does not expect any additional charges related to this discontinued operation.

#### Italian Medical Device Payback ("IMDP")

In 2015, the Italian Parliament introduced rules for entities that supply goods and services to the Italian National Healthcare System. The healthcare law is expected to impact the business and financial reporting of companies operating in the medical technology sector that sell medical devices in Italy. A key provision of the law is a 'payback' measure, requiring companies selling medical devices in Italy to make payments to the Italian government if medical device expenditures exceed regional maximum ceilings. Companies are required to make payments equal to a percentage of expenditures exceeding maximum regional caps. There is considerable uncertainty about how the law will operate and what the exact timeline is for finalization. The Company's current assessment of the IMDP involves significant judgment regarding the expected scope and actual implementation terms of the measure as the latter have not been clarified to date by Italian authorities. The Company accounts for the estimated cost of the IMDP as sales and marketing expense and recorded expense of \$1.3 million, \$1.0 million, and \$0.9 million for the years ended December 31, 2019, 2018, and 2017, respectively. As of December 31, 2019, the Company has accrued \$4.9 million related to the IMDP, which it has classified within other long-term liabilities; however, the actual liability could be higher or lower than the amount accrued once the law has been clarified by the Italian authorities.

#### Brazil

In July 2018, the Federal Prosecution Service in Rio de Janeiro and representatives from the Brazilian antitrust authority inspected the offices of more than 30 companies, including the Company's office in São Paulo, as part of an investigation into tender irregularities in the medical device industry. Before doing so, the authorities obtained a court order affecting the Company's (and other companies') local bank accounts resulting in the freezing of approximately \$2.5 million of the Company's cash, which the Company reclassified to restricted cash. On April 3, 2019, the Company's appeal regarding the freezing of its local bank accounts was heard by the Brazil Federal Court of Appeals of Rio de Janeiro, in which the Court ordered the unfreezing of the Company's cash. The cash was then returned without any restriction in April 2019. As such, this balance was reclassified to cash and cash equivalents in 2019.

In September 2019, approximately \$0.7 million of the Company's cash in Brazil was frozen upon request to satisfy a judgment related to an ongoing legal dispute with a former Brazilian distributor. Although the Company is appealing the judgment, this cash has been reclassified to restricted cash. As of December 31, 2019, the Company has accrued \$1.7 million related to this matter.

#### 13. Shareholders' equity

#### Dividends

The Company has not paid dividends to holders of its common stock in the past. Certain subsidiaries of the Company have restrictions on their ability to pay dividends in certain circumstances pursuant to the Amended Credit Agreement. In the event that the Company decides to pay a dividend to holders of its common stock in the future with dividends received from its subsidiaries, the Company may, based on prevailing rates of taxation, be required to pay additional withholding and income tax on such amounts received from its subsidiaries.

#### Accumulated Other Comprehensive Income (Loss)

Accumulated other comprehensive income (loss) is comprised of foreign currency translation adjustments and the unrealized gains (losses) on the Company's debt security, which was settled in 2019. The components of and changes in accumulated other comprehensive income (loss) are as follows:

(U.S. Dollars, in thousands)	Currency Translation Adjustments	Debt Security	•	Accumulated Other Comprehensive Income (Loss)
Balance at December 31, 2017	\$ (563)	\$ 4,350	\$	3,787
Other comprehensive income (loss)	(1,823)	1,770		(53)
Income taxes	_	(438)		(438)
Balance at December 31, 2018	\$ (2,386)	\$ 5,682	\$	3,296
Cumulative effect adjustment from adoption of ASU 2018-02	_	937		937
Other comprehensive loss	(653)	(2,593)		(3,246)
Income taxes	_	642		642
Reclassification adjustment to:				
Interest income (expense), net	_	(1,034)		(1,034)
Other expense, net	_	(5,193)		(5,193)
Income taxes	_	1,559		1,559
Balance at December 31, 2019	\$ (3,039)	\$ _	\$	(3,039)

#### 14. Revenue recognition and accounts receivable

#### Revenue Recognition

The Company accounts for a contract when there is approval and commitment from both parties, the rights of the parties are identified, payment terms are identified, the contract has commercial substance, and collectability of consideration is probable. The Company's contracts may contain one or more performance obligations. If a contract contains more than one performance obligation, the Company allocates the total transaction price to each of the performance obligations based upon the observable standalone selling price of the promised goods or services underlying each performance obligation. The Company recognizes revenue when control of the promised goods or services is transferred to the customer, which typically occurs at a point in time

upon shipment, delivery, or utilization, in an amount that reflects the consideration which the Company expects to be entitled in exchange for the promised goods or services. The amount the Company expects to be entitled to in exchange for the goods or services reflects any fixed amount stated per the contract and estimates for any variable consideration, such as discounts, to the extent that is it probable that a significant reversal of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved.

The following sections discuss the Company's revenue recognition policies by significant product category:

#### Bone Growth Therapies

Bone Growth Therapies revenue is largely attributable to the U.S. and is comprised of third-party payor transactions and wholesale revenue.

The largest portion of Bone Growth Therapies revenue is derived from third-party payors. This includes commercial insurance carriers, health maintenance organizations, preferred provider organizations, and governmental payors, such as Medicare. Revenue is recognized when the product is fitted to and accepted by the patient and all applicable documents required by the third-party payor have been obtained. Amounts paid by third-party payors are generally based on fixed or allowable reimbursement rates. These revenues are recorded at the expected or preauthorized reimbursement rates, net of any contractual allowances or adjustments. Certain billings are subject to review by the third-party payors and may be subject to adjustment.

Wholesale revenue is related to the sale of the Company's bone growth stimulators directly to durable medical equipment suppliers. Wholesale revenues are typically recognized upon shipment and receipt of a confirming purchase order, which is when the customer obtains control of the promised goods.

#### **Biologics**

Biologics revenue is largely attributable to the U.S. and is primarily related to a collaborative arrangement with MTF, which extends through July 28, 2027. Under this arrangement, the Company markets tissue for bone repair and reconstruction under the brand names Trinity Evolution and Trinity ELITE. Per the terms of the agreement, MTF sources the tissue, processes it to create the bone growth matrix, packages, and delivers the tissue to the customer in accordance with orders received from the Company. The Company has exclusive global marketing rights for the Trinity Evolution and Trinity ELITE tissues, as well as non-exclusive marketing rights for other products, and receives marketing fees from MTF based on total sales. MTF is considered the primary obligor in these arrangements; therefore, the Company recognizes marketing service fees on a net basis within net sales upon shipment of the product to the customer.

#### Spinal Implants and Global Extremities

Spinal Implants and Global Extremities products are distributed world-wide, with U.S. sales largely comprised of commercial sales and international sales derived from both commercial sales and through stocking distributor arrangements.

Commercial revenue is largely related to the sale of the Company's Spinal Implants and Global Extremities products to hospital customers. The customer obtains control and revenues are recognized when these products have been utilized and a confirming purchase order has been received from the hospital.

Other revenues within the Spinal Implants and Global Extremities product categories are derived from stocking distributors, who purchase the Company's products and then re-sell them directly to customers, such as hospitals. For revenue from stocking distributor arrangements, subsequent to the adoption of Topic 606 effective January 1, 2018, the Company recognizes revenue upon shipment and receipt of a confirming purchase order, which is when the distributor obtains control of the promised goods. The transaction price with stocking distributors is estimated based upon the Company's historical collection experience with the stocking distributor. To derive this estimate, the Company analyzes twelve months of historical invoices by stocking distributor and the subsequent collections on those invoices for a period of up to 24 months subsequent to the invoice date. The historical collection percentage, which is specific to each stocking distributor, is then used to calculate the transaction price. Cost of sales is also recorded upon transfer of control of the product to the customer subsequent to the adoption of Topic 606.

Prior to the adoption of Topic 606, or for all periods presented prior to January 1, 2018, the Company recognized revenue from stocking distributor arrangements once the product was delivered to the end customer (the "sell-through method"). Because the Company did not have reliable information about when its distributors sold the product through to end customers, the Company used cash collection from distributors as a basis for revenue recognition under the sell-through method. Although in many cases the

Company was legally entitled to the accounts receivable at the time of shipment, the Company did not recognize accounts receivables or any corresponding deferred revenues at the time of shipment associated with stocking distributor transactions for which revenue was recognized on the sell-through method. The Company also considered whether to match the related cost of sales with revenue or to recognize cost of sales upon shipment. In making this assessment, the Company considered the financial viability of its stocking distributors, based on their creditworthiness, to determine if collectability of amounts sufficient to realize the costs of the products shipped was reasonably assured at the time of shipment. In instances where the stocking distributor was determined to be financially viable, the Company deferred the costs of sales until revenue was recognized.

#### Product Sales and Marketing Service Fees

The table below presents net sales, which includes product sales and marketing service fees, for each of the years ended December 31, 2019, 2018, and 2017.

	For the year ended December 31,						
(U.S. Dollars, in thousands)		2019		2018	2017		
Product sales	\$	397,064	\$	395,589	\$	373,538	
Marketing service fees		62,891		57,453		60,285	
Net sales	\$	459,955	\$	453,042	\$	433,823	

Product sales primarily consists of the sale of Bone Growth Therapies, Spinal Implants, and Global Extremities products. Marketing service fees are received from MTF based on total sales of biologics tissues and relates solely to the Biologics product category within the Global Spine reporting segment. Marketing service fees received from MTF were \$62.9 million, or approximately 96% of total Biologics revenues, for the year ended December 31, 2019. As MTF is the Company's single supplier for the Trinity Evolution and Trinity ELITE tissue forms, which are derived from human cadaveric donors, any event or circumstance that would impact MTF's continued access to donated human cadaveric tissue or the Company's ability to market these tissues may adversely impact the Company's financial results.

Revenues exclude any value added or other local taxes, intercompany sales and trade discounts. Shipping and handling costs for products shipped to customers are included in cost of sales, and were \$2.8 million, \$2.7 million and \$3.0 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### Trade Accounts Receivable and Allowances

Payment terms vary by the type and location of the Company's customers and the products or services offered. The term between invoicing and when payment is due is not significant. Accounts receivable are analyzed on a quarterly basis to assess the adequacy of both reserves for doubtful accounts and contractual allowances. Revisions in allowances for doubtful accounts estimates are recorded as an adjustment to bad debt expense within sales and marketing expenses. Revisions to contractual allowances are recorded as an adjustment to net sales. The Company's estimates are periodically tested against actual collection experience.

The Company will generally sell receivables from certain Italian hospitals each year to accelerate cash collections. During 2019, 2018, and 2017 the Company sold €9.8 million, €9.8 million, and €9.8 million, \$1.5 million, and \$11.2 million) of receivables, respectively. The estimated related fees for 2019, 2018, and 2017 were \$0.3 million, \$0.3 million and \$0.3 million, respectively, which is recorded as interest expense. Trade accounts receivables sold without recourse are removed from the balance sheet at the time of sale.

#### Puerto Rico Settlement

In June 2019, the Company received a payment of \$1.4 million from the Administration of Medical Services of Puerto Rico, a government-owned corporation, in settlement of approximately \$2.5 million of outstanding accounts receivable. This \$2.5 million of outstanding accounts receivable had previously been fully reserved between the Company's allowances for doubtful accounts and contractual allowances. As a result of this settlement, and in accordance with the Company's policy, the Company recorded the resulting adjustment to contractual allowances of \$0.4 million within net sales and the recovery of the allowance for doubtful accounts as a credit to bad debt expense of \$1.0 million.

#### Other Contract Assets

The Company's contract assets, excluding trade accounts receivable ("other contract assets"), largely consist of payments made to certain distributors to obtain contracts, gain access to customers in certain territories, and to provide the benefit of the exclusive

distribution of the Company's products. Other contract assets are included in other long-term assets and were \$3.7 million and \$1.9 million as of December 31, 2019 and 2018, respectively.

Other contract assets are amortized on a straight-line basis over the term of the related contract. No impairments were incurred for other contract assets in 2019 or 2018. Further, the Company has applied the practical expedient allowed within Topic 606 to expense sales commissions when incurred, as the applicable amortization period would be for one year or less.

#### 15. Business segment information

The Company changed its reportable business segments, beginning with the first quarter of 2019, to align with changes in how the Company manages its business, reviews operating performance and allocates resources. The Company now reports results under two reportable segments: Global Spine and Global Extremities. These reporting segments represent the operating segments for which the Chief Executive Officer, who is also Chief Operating Decision Maker (the "CODM"), reviews financial information and makes resource allocation decisions among businesses. The primary metric used by the CODM in managing the Company is earnings before interest, tax, depreciation, and amortization ("EBITDA"). The Company neither discretely allocates assets, other than goodwill, to its operating segments nor evaluates the operating segments using discrete asset information. Accordingly, the reporting segment information has been prepared based on these two reporting segments. Prior periods have been recast to present the change in reporting segments.

#### Global Spine

The Global Spine reporting segment offers three primary product categories: Bone Growth Therapies, Spinal Implants, and Biologics.

The Bone Growth Therapies product category manufactures, distributes, and provides support services of market leading bone growth stimulator devices that enhance bone fusion. These Class III medical devices are indicated as an adjunctive, noninvasive treatment to improve fusion success rates in the cervical and lumbar spine as well as a therapeutic treatment for non-spine fractures that have not healed (non-unions). This product category uses distributors and sales representatives to sell its devices to hospitals, healthcare providers, and patients, primarily in the U.S.

The Spinal Implants product category designs, develops, and markets a broad portfolio of motion preservation and fixation implant products used in surgical procedures of the spine. Spinal Implants distributes its products through a network of distributors and sales representatives to sell spine products to hospitals and healthcare providers, globally.

The Biologics product category provides a portfolio of regenerative products and tissue forms that allow physicians to successfully treat a variety of spinal and orthopedic conditions. This product category specializes in the marketing of the Company's exclusive regeneration tissue forms and distributes its tissues to hospitals and healthcare providers, primarily in the U.S., through a network of independent distributors and sales representatives. The partnership with MTF allows the Company to exclusively market the Trinity Evolution and Trinity ELITE tissue forms for musculoskeletal defects to enhance bony fusion.

#### **Global Extremities**

The Global Extremities reporting segment offers products and solutions that allow physicians to successfully treat a variety of orthopedic conditions unrelated to the spine. This reporting segment specializes in the design, development, and marketing of the Company's orthopedic products used in fracture repair, deformity correction and bone reconstruction procedures. Global Extremities distributes its products through a network of distributors and sales representatives to sell orthopedic products to hospitals, and healthcare providers, globally.

#### Corporate

Corporate activities are comprised of the operating expenses and activities of the Company not necessarily identifiable within the two reporting segments.

The table below presents net sales by major product category by reporting segment:

		Year Ended December 31,								
	20	2019			20	17				
		Percent of Total Net		Percent of Total Net		Percent of Total Net				
(U.S. Dollars, in thousands)	Net Sales	Sales	Net Sales	Sales	Net Sales	Sales				
Bone Growth Therapies	\$ 197,181	42.9%	\$ 195,252	43.1%	\$ 185,900	42.9%				
Spinal Implants	94,544	20.6%	91,658	20.2%	81,957	18.9%				
Biologics	65,496	14.2%	59,684	13.2%	62,724	14.4%				
Global Spine	357,221	77.7%	346,594	76.5%	330,581	76.2%				
Global Extremities	102,734	22.3%	106,448	23.5%	103,242	23.8%				
Net sales	\$ 459,955	100.0%	\$ 453,042	100.0%	\$ 433,823	100.0%				

 $The following table \ presents \ EBITDA, the \ primary \ metric \ used \ in \ managing \ the \ Company, \ by \ reporting \ segment:$ 

	Year Ended December 31,						
(U.S. Dollars, in thousands)		2019		2018		2017	
Global Spine	\$	39,528	\$	76,545	\$	84,034	
Global Extremities		7,496		9,453		7,143	
Corporate		(49,252)		(43,626)		(34,246)	
Total EBITDA		(2,228)		42,372		56,931	
Depreciation and amortization		(24,699)		(18,659)		(20,124)	
Interest expense, net		(122)		(828)		(416)	
Income (loss) before income taxes	\$	(27,049)	\$	22,885	\$	36,391	

The following table presents depreciation and amortization by reporting segment:

		Year Ended December 31,						
(U.S. Dollars, in thousands)		2019	2018		2017			
Global Spine	\$	14,329	\$	9,512	\$	9,834		
Global Extremities		5,575		5,342		6,040		
Corporate		4,795		3,805		4,250		
Total	\$	24,699	\$	18,659	\$	20,124		

#### $Geographical\ information$

The following data includes net sales by geographic destination:

		Year Ended December 31,							
(U.S. Dollars, in thousands)		2019		2018	2017				
U.S.	\$	361,939	\$	355,353	\$	345,145			
Italy		19,560		19,331		17,059			
Germany		12,688		11,606		7,063			
United Kingdom		10,090		8,731		8,725			
Brazil		7,685		7,120		10,356			
Others		47,993		50,901		45,475			
Net sales	\$	459,955	\$	453,042	\$	433,823			

The table below presents net sales by geographic destination for each reporting segment and for the consolidated Company:

	Year Ended December 31,								
(U.S. Dollars, in thousands)		2019	2018			2017			
Global Spine									
U.S.	\$	335,410	\$	326,994	\$	318,227			
International		21,811		19,600		12,354			
Total Global Spine		357,221		346,594		330,581			
Global Extremities									
U.S.		26,529		28,359		26,918			
International		76,205		78,089		76,324			
Total Global Extremities		102,734		106,448		103,242			
Consolidated									
U.S.		361,939		355,353		345,145			
International		98,016		97,689		88,678			
Net sales	\$	459,955	\$	453,042	\$	433,823			

The following data includes property, plant and equipment by geographic area:

(U.S. Dollars, in thousands)	2019	2018
U.S.	\$ 51,278	\$ 31,344
Italy	7,937	7,732
Germany	849	861
United Kingdom	1,082	896
Brazil	141	191
Others	1,440	1,811
Total	\$ 62,727	\$ 42,835

#### 16. Acquisition-related amortization and remeasurement

Acquisition-related amortization and remeasurement consists of amortization related to intangible assets acquired through business combinations or asset acquisitions and the remeasurement of any related contingent consideration arrangement. Components of acquisition-related amortization and remeasurement for the twelve months ended December 31, 2019, 2018, and 2017, respectively, are as follows:

		Year Er	ided December 31,	
(U.S. Dollars, in thousands)	2019		2018	2017
Changes in fair value of contingent consideration	\$ 29,140	\$	3,069	\$ _
Amortization of acquired intangibles	5,072		1,255	 _
Total	\$ 34,212	\$	4,324	\$ _

#### 17. Share-based compensation

At December 31, 2019, and 2018, the Company had stock option and award plans, and a stock purchase plan.

#### 2012 Long Term Incentive Plan

The Board of Directors adopted the Amended and Restated 2012 Long-Term Incentive Plan (the "2012 LTIP") on April 13, 2012, which was subsequently provided by shareholder ratification. The 2012 LTIP provides for the grant of options to purchase shares of the Company's common stock, stock awards (including restricted stock, unrestricted stock, and stock units), stock appreciation rights,

performance-based awards and other equity-based awards. All of the Company's employees and the employees of the Company's subsidiaries and affiliates are eligible and may receive awards under the 2012 LTIP. In addition, the Company's non-employee directors, consultants, and advisors who perform services for the Company and its subsidiaries and affiliates may receive awards under the 2012 LTIP. Incentive share options; however, are only available to the Company's employees. Awards granted under the 2012 LTIP expire no later than ten years after the date of grant. At December 31, 2019, the Company reserves a total of 4,750,000 shares of common stock for issuance pursuant to the 2012 LTIP, subject to certain adjustments set forth in the 2012 LTIP. At December 31, 2019, there were 1,067,947 options outstanding under the 2012 LTIP, of which 714,180 were exercisable. In addition, there were 119,217 shares of unvested restricted stock outstanding and 560,844 restricted stock units outstanding, some of which contain market-based vesting conditions, under the 2012 LTIP as of December 31, 2019.

#### 2004 Long Term Incentive Plan

The 2004 Long Term Incentive Plan (the "2004 LTIP") reserved 3.1 million shares for issuance, subject to certain adjustments set forth in the 2004 LTIP. At December 31, 2019, there were 25,500 options outstanding under the 2004 LTIP, all of which were exercisable.

#### **Inducement Plans**

The Inducement Plan for Spinal Kinetics Employees (the "Spinal Kinetics Inducement Plan") reserved 51,705 shares for issuance to employees of Spinal Kinetics as an inducement to continue employment with the Company. At December 31, 2019, there were 7,156 options outstanding under the Spinal Kinetics Inducement Plan, all of which were exercisable, and 5,608 shares of unvested restricted stock outstanding.

In conjunction with the Options Medical acquisition, an inducement grant of 25,478 restricted stock units, with a fair value of \$1.4 million, was awarded to the Options Medical founder. The award vests in one-third annual increments beginning on the first anniversary of the grant date and is contigent upon continued employment. As of December 31, 2019, there were 25,478 shares of unvested restricted stock outstanding relating to this inducement.

In August 2019, the Company appointed a new President of Global Spine, who was then subsequently promoted to President and Chief Executive Officer. As an inducement to accept employment with the Company, the individual was awarded a grant of stock options to acquire up to 50,711 shares of common stock and an award of 14,743 restricted stock units. Both awards will vest in one-fourth annual increments beginning on the first anniversary of the grant date. As of December 31, 2019, there were 50,711 options outstanding under this inducement, none of which were exercisable, and 14,743 shares of unvested restricted stock outstanding.

#### Stock Purchase Plan

The Second Amended and Restated Stock Purchase Plan, as Amended (the "Stock Purchase Plan") provides for the issuance of shares of the Company's common stock to eligible employees and directors of the Company and its subsidiaries that elect to participate in the plan and acquire shares of common stock through payroll deductions (including executive officers).

During each purchase period, eligible employees may designate between 1% and 25% of their compensation to be deducted for the purchase of common stock under the plan (or such other percentage in order to comply with regulations applicable to Employees domiciled in or resident of a member state of the European Union). For eligible directors, the designated percentage will be applied to an amount equal to his or her director compensation paid in cash for the current plan period. The purchase price of the shares under the plan is equal to 85% of the fair market value on the first day of the plan period or, if lower, on the last day of the plan period.

Due to the compensatory nature of such plan, the Company records the related share-based compensation in the consolidated statement of operations. Compensation expense is estimated using the Black-Scholes valuation model, with such value recognized as expense over the plan period. As of December 31, 2019, the aggregate number of shares reserved for issuance under the Stock Purchase Plan is 2,350,000. As of December 31, 2019, 1,827,147 shares had been issued.

#### Share-Based Compensation Expense

Share-based compensation expense is recorded in the same line of the consolidated statements of operations as the employee's cash compensation. The following tables present the detail of share-based compensation by line item in the consolidated statements of income as well as by award type, for the years ended December 31, 2019, 2018, and 2017:

		Year Ended December 31,							
(U.S. Dollars, in thousands)	2019		2018 2017						
Cost of sales	\$ 715	\$	522	\$	486				
Sales and marketing	2,512		1,802		1,471				
General and administrative	16,872		15,197		9,671				
Research and development	1,441		1,409		929				
Total	\$ 21,540	\$	18,930	\$	12,557				

		Year	Ended December 31,		
(U.S. Dollars, in thousands)	2019 2018				
Stock options	\$ 4,054	\$	3,061	\$	2,388
Time-based restricted stock awards and stock units	11,084		7,265		5,540
Performance-based restricted stock awards and stock units	_		1,998		462
Market-based restricted stock units	4,733		5,256		2,904
Stock purchase plan	1,669		1,350		1,263
Total	\$ 21,540	\$	18,930	\$	12,557

The income tax benefit related to this expense was \$3.5 million, \$3.2 million, and \$3.4 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### Stock Options

The fair value of time-based stock options is determined using the Black-Scholes valuation model, with such value recognized as expense over the service period, which is typically four years, net of actual forfeitures. The fair value of market-based stock options is determined at the date of the grant using the Monte Carlo valuation methodology, with such value recognized as expense over the requisite service period adjusted for forfeitures as they occur. The Monte Carlo methodology incorporates into the valuation the possibility that the market condition may not be satisfied.

A summary of the Company's assumptions used in determining the fair value of the stock options granted during the year is shown in the following table.

		Year Ended December 31,							
	20	119		2018		2017			
Assumptions:									
Expected term (in years)		5.0		4.5		4.5			
Expected volatility	29	9.7% – 31.0%		28.7% - 30.1%		31.2%			
Risk free interest rate	1.	38% – 2.31%		2.55% - 2.79%		1.93%			
Dividend yield		_		_		_			
Weighted average grant date fair value	\$	14.64	\$	16.28	\$	13.32			

The expected term of the options granted is estimated based on a number of factors, including the vesting and expiration terms of the award, historical employee exercise behavior for both options that are currently outstanding and options that have been exercised or are expired, and an employee's average length of service. Expected volatility is based on the historical volatility of the Company's common stock. The risk-free interest rate is determined based upon a constant U.S. Treasury security rate with a contractual life that approximates the expected term of the option.

Summaries of the status of the Company's stock option plans as of December 31, 2019 and 2018 and changes during the year ended December 31, 2019 are presented below:

	Options	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term
Outstanding at December 31, 2018	1,175,887	\$ 41.87	
Granted	279,248	\$ 49.17	
Exercised	(74,729)	\$ 37.20	
Forfeited or expired	(79,092)	\$ 54.84	
Outstanding at December 31, 2019	1,301,314	\$ 42.92	5.69
Vested and expected to vest at December 31, 2019	1,301,314	\$ 42.92	5.69
Exercisable at December 31, 2019	896,836	\$ 39.97	4.24

As of December 31, 2019, the unamortized compensation expense relating to options granted and expected to be recognized was \$3.7 million. This amount is expected to be recognized through December 2023 over a weighted average period of approximately 1.7 years. The total intrinsic value of options exercised was \$1.4 million, \$3.2 million and \$2.2 million for the years ended December 31, 2019, 2018, and 2017, respectively. For the year ended December 31, 2019 we received \$2.8 million in cash from stock option exercises, with the tax benefit realized for the tax deductions from these exercises of \$0.3 million. The aggregate intrinsic value of options outstanding and options exercisable as of December 31, 2019 is calculated as the difference between the exercise price of the underlying options and the market price of the Company's common stock for options that had exercise prices lower than \$46.18, the closing price of the Company's stock on December 31, 2019. The aggregate intrinsic value of options outstanding was \$7.3 million, \$13.6 million, and \$18.7 million for the years ended December 31, 2019, 2018, and 2017, respectively. The aggregate intrinsic value of options exercisable was \$6.7 million, \$11.0 million, and \$12.4 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### Time-based Restricted Stock Awards and Stock Units

During the year ended December 31, 2019, the Company granted to employees and non-employee directors 319,189 shares of time- based restricted stock awards or stock units, which vest at various dates through December 2023. The compensation expense, which represents the fair value of the stock measured at the market price at the date of grant, is recognized on a straight-line basis over the vesting period, which is typically four years, net of actual forfeitures.

Since 2017, the annual grant to non-employee directors has been made in the form of one-year vesting restricted stock units with deferred delivery ("DSUs"), whereby shares are not settled until after the director ceases service as a director. As of December 31, 2019, there were 47,077 DSUs outstanding that are vested but not settled.

The aggregate fair value of time-based restricted stock awards and stock units that vested during the years ended December 31, 2019, 2018 and 2017 was \$9.5 million, \$8.0 million and \$7.3 million, respectively. Unamortized compensation expense related to time-based restricted stock awards and stock units amounted to \$15.3 million at December 31, 2019, and is expected to be recognized over a weighted average period of approximately 2.5 years. The aggregate intrinsic value of time-based restricted stock awards and stock units outstanding was \$21.6 million, \$18.8 million and \$17.8 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### Performance-based Restricted Stock Awards and Stock Units

The Company's performance-based restricted stock awards and stock units contain performance-based vesting conditions.

The fair value of performance-based restricted stock awards and stock units is calculated based upon the closing stock price at the date of grant. Such value is recognized as expense over the derived requisite service period beginning in the period in which they are deemed probable to vest, net of actual forfeitures. Vesting probability is assessed based upon forecasted earnings and financial results. The Company did not grant any performance-based restricted stock awards or stock units to employees during the years ended December 31, 2019, 2018, or 2017.

During the year ended December 31, 2015, the Company granted to employees 110,660 shares of performance-based restricted stock awards, which vested based upon the achievement of certain earnings or return on invested capital targets. No compensation expense was recorded for these awards in 2019 as the performance targets were obtained in prior years. Approximately \$0.4 million and \$0.5 million of compensation expense was recorded for the years ended December 31, 2018 and 2017, respectively, associated with these performance-based restricted stock awards. The fair value of performance-based restricted stock awards that vested during the years ended December 31, 2019, 2018, and 2017, were \$3.2 million, \$0.0 million, and \$4.9 million, respectively. No unamortized compensation expense related to performance-based restricted stock awards remains as of December 31, 2019. The aggregate intrinsic value of performance-based restricted stock awards outstanding was \$0.0 million, \$2.9 million and \$3.0 million for the years ended December 31, 2019, 2018, and 2017, respectively.

During the year ended December 31, 2015, the Company also granted 55,330 shares of performance-based restricted stock units to employees, which vested based upon the achievement of certain earnings or return on invested capital targets for the year ended December 31, 2018. The Company recognized compensation expense of \$0.0 million, \$1.6 million, and \$0.0 million associated with these 2015 performance-based restricted stock units for the years ended December 31, 2019, 2018, and 2017, respectively. The fair value of performance-based restricted stock units that vested during the years ended December 31, 2019, 2018, and 2017, were \$2.7 million, \$0.0 million, and \$0.0 million, respectively. No unamortized compensation expense remains as of December 31, 2019 related to these 2015 performance-based restricted stock units. The aggregate intrinsic value of performance-based restricted stock units outstanding was \$0.0 million, \$2.5 million, and \$3.0 million for the years ended December 31, 2019, 2018, and 2017, respectively.

#### Market-based Restricted Stock Units

The Company's market-based restricted stock units contain market-based vesting conditions.

The fair value of market-based restricted stock units is determined at the date of the grant using the Monte Carlo valuation methodology, with any discounts for post-vesting restrictions estimated using the Chaffe Model. The Monte Carlo methodology incorporates into the valuation the possibility that the market condition may not be satisfied. Such value is recognized on a straight-line basis over the vesting period, net of actual forfeitures. The awards, if the market conditions are achieved, will be settled in shares of common stock, with one share of common stock issued per restricted stock unit if targets are achieved at the 100% level. Awards may be achieved at a minimum level of 50% and a maximum of 200%. The market conditions for the awards are based on the Company's stock achieving certain total shareholder return targets relative to specified index companies during a 3-year performance period beginning on each respective grant date. The Company recorded \$4.7 million \$5.3 million, and \$2.9 million in compensation expense for the years ended December 31, 2019, 2018, and 2017, respectively, related to market-based restricted stock units. Unamortized compensation expense for market-based restricted stock units amounted to \$3.8 million at December 31, 2019, and is expected to be recognized over a weighted average period of approximately 1.2 years. The aggregate intrinsic value of market-based restricted stock units outstanding was \$11.9 million, \$14.2 million, and \$10.2 million for the years ended December 31, 2019, 2018, and 2017, respectively.

A summary of the status of our time-based, performance-based and market-based restricted stock awards and stock units as of December 31, 2019 and 2018 and changes during the year ended December 31, 2019 are presented below:

	Time-based Ro Awards and			Performa Restrict Awards and	ed St	ock	Market-ba		-
		Weighted Weight Average Grant Average G Date Fair Date F.			Weighted erage Grant Date Fair		Weigh Average		
	Shares		Value	Shares		Value	Shares	Date	Fair Value
Outstanding at December 31, 2018	357,592	\$	49.77	102,155	\$	33.12	271,295	\$	57.44
Granted	319,189	\$	52.48	_	\$	_	60,722	\$	65.27
Vested and settled	(157,053)	\$	46.82	(102,155)	\$	33.12	_	\$	_
Cancelled	(51,000)	\$	52.85	_	\$	_	(74,855)	\$	15.92
Outstanding at December 31, 2019	468,728	\$	51.96		\$	_	257,162	\$	60.08

#### Retirement of the Company's President and Chief Executive Officer

On February 25, 2019, the Company entered into a Transition and Retirement Agreement (the "Retirement Agreement") with the Company's President and Chief Executive Officer, Brad Mason. Under the Retirement Agreement, the parties agreed that Mr. Mason would continue to serve in his role until his successor was appointed by the Board and commenced employment, which occurred on October 31, 2019 (the "Retirement Date"). The parties agreed that Mr. Mason would provide ongoing transition assistance to the Company pursuant to a consulting arrangement during the 12 months following the Retirement Date, and that Mr. Mason will be paid \$40,000 per month for such transition consulting services.

As part of the Retirement Agreement, certain time-based stock options and restricted stock awards were modified to vest on the Retirement Date. In addition, stock options were modified to extend the post-termination exercise period from 18 months under a standard qualified retirement to up to four years, dependent upon the remaining contractual terms terms of the options. For fiscal year 2019, in lieu of Mr. Mason's normal annual incentive awards under the 2012 LTIP, and in recognition of the ongoing transition assistance that he agreed to provide, Mr. Mason was granted an award of RSUs on April 1, 2019, with a grant date fair market value of \$2.0 million that will vest on the first anniversary of the date of grant, subject to him continuing to provide transition consulting services through his Retirement Date. The full fair value of the award was recorded as expense in 2019. The Company recognized approximately \$6.5 million in share-based compensation expense during the year ended December 31, 2019 related to the Retirement Agreement, which was charged to general and administrative expense in the consolidated statements of operations and comprehensive income (loss).

#### 18. Defined contribution plans and deferred compensation

#### **Defined Contribution Plans**

Orthofix Inc. sponsors a defined contribution plan (the "401(k) Plan") covering substantially all full time U.S. employees. The 401(k) Plan allows participants to contribute up to 80% of their pre-tax compensation, subject to certain limitations, with the Company matching 100% of the first 2% of the employee's base compensation and 50% of the next 4% of the employee's base compensation if contributed to the 401(k) Plan. During the years ended December 31, 2019, 2018, and 2017, expenses incurred relating to the 401(k) Plan, including matching contributions, were approximately \$2.7 million, \$2.3 million, and \$2.0 million, respectively.

The Company also operates defined contribution plans for its international employees meeting minimum service requirements. The Company's expenses for such contributions during each of the years ended December 31, 2019, 2018, and 2017 were \$1.0 million, \$1.1 million and \$1.1 million, respectively.

#### **Deferred Compensation Plans**

Under Italian Law, our Italian subsidiary accrues, on behalf of its employees, deferred compensation, which is paid on termination of employment. The accrual for deferred compensation is based on a percentage of the employee's current annual remuneration plus an annual charge. Deferred compensation is also accrued for the leaving indemnity payable to agents in case of dismissal, which is regulated by a national contract and is equal to approximately 3.8% of total commissions earned from the Company. The Company's relations with its Italian employees, who represent 18.6% of total employees at December 31, 2019, are governed by the provisions of a National Collective Labor Agreement setting forth mandatory minimum standards for labor relations in the metal mechanic workers industry. The Company is not a party to any other collective bargaining agreement. The balance in other long-term liabilities as of December 31, 2019 and 2018 was \$1.3 million, and represents the amount which would be payable if all the employees and agents had terminated employment at that date.

#### 19. Income taxes

Income (loss) from continuing operations before provision for income taxes consisted of the following:

	Year Ended December 31,						
(U.S. Dollars, in thousands)	2019 2018 2017						
U.S.	\$ (24,890)	\$	28,642	\$	27,774		
Non-U.S.	(2,159)		(5,757)		8,617		
Income (loss) before income taxes	\$ (27,049)	\$	22,885	\$	36,391		

The provision for income taxes on continuing operations consists of the following:

	Year Ended December 31,							
(U.S. Dollars, in thousands)	2019	2018		2017				
U.S.								
Current	\$ (1,911) \$	9,480	\$	3,620				
Deferred	2,008	(3,430)		20,222				
	97	6,050		23,842				
Non-U.S.								
Current	1,931	2,255		4,062				
Deferred	(615)	769		1,196				
	1,316	3,024		5,258				
Income tax expense	\$ 1,413 \$	9,074	\$	29,100				

The differences between the income tax provision at the U.S. federal statutory tax rate and the Company's effective tax rate for the years ended December 31, 2019, 2018, and 2017 consist of the following:

		2019	)		2018	20:	20171		
(U.S. Dollars, in thousands, except percentages)	ı	Amount	Percent	Amount	Percent	Amount	Percent		
Statutory U.S. federal income tax rate	\$	(5,680)	21.0%	\$ 4,80	6 21.0%	\$ 12,737	35.0%		
State taxes, net of U.S. federal benefit		1,043	(3.9)	1,03	8 4.5	1,598	4.4		
Foreign rate differential, including withholding taxes		131	(0.5)	78	4 3.4	(3,849)	(10.6)		
Valuation allowances, net		(165)	0.6	4,11	6 18.0	3,548	9.7		
Research credits		(829)	3.1	(71	0) (3.1)	(397)	(1.1)		
Italian subsidiary intangible asset		_	_	(23	0) (1.0)	(381)	(1.0)		
Domestic manufacturing deduction		_	_	-		(818)	(2.2)		
Unrecognized tax benefits, net of settlements		(2,745)	10.1	8	1 0.4	6,002	16.5		
Impact of the Tax Act		_	_	(56	0) (2.4)	8,347	22.9		
Equity compensation		626	(2.3)	(1,64	6) (7.2)	272	0.7		
Executive compensation		1,504	(5.6)	60	6 2.6	123	0.3		
Contingent consideration		5,678	(21.0)	52	8 2.3	_	_		
Other, net		1,850	(6.7)	26	1 1.2	1,918	5.4		
Income tax expense/effective rate	\$	1,413	(5.2)%	\$ 9,07	4 39.7%	\$ 29,100	80.0%		

<sup>1</sup> The rate reconciliation for 2017 is based on the U.S. federal income tax rate, rather than the Company's country of domicile rate at that time. The Company believes, given the large proportion of taxable income earned in the U.S., this presentation is more meaningful.

Certain items within the tables of this footnote have been recast for previous years to conform to current year presentation.

On December 22, 2017, the Tax Act was signed into law making significant changes to the Internal Revenue Code. Changes include, but are not limited to, a U.S. corporate rate decrease from 35% to 21% effective for tax years beginning after December 31, 2017, the transition of U.S. international taxation from a worldwide tax system to a territorial system, and a one-time transition tax on the mandatory deemed repatriation of cumulative foreign earnings as of December 31, 2017. The Company calculated its best estimate of the impact of the Tax Act in the 2017 income tax provision in accordance with its understanding of the Tax Act and guidance available as of the date of this filing. As a result, the Company recorded \$8.3 million of additional income tax expense in the fourth quarter of 2017, the period in which the legislation was enacted. The provisional amount related to the remeasurement of certain deferred tax assets and liabilities, based on the rates at which they are expected to reverse in the future was \$8.6 million. The provisional amount related to the one-time transition tax on the mandatory deemed repatriation of foreign earnings was zero. The Company also recorded a benefit of \$0.3 million related to an income tax liability recorded in 2016 related to repatriation of earnings from our subsidiary in Puerto Rico.

On December 22, 2017, Staff Accounting Bulletin No. 118 ("SAB 118") was issued to address the application of U.S. GAAP in situations when a registrant does not have the necessary information available, prepared, or analyzed (including computations) in reasonable detail to complete the accounting for certain income tax effects of the Tax Act. In accordance with SAB 118, we

determined that the \$8.6 million of the deferred tax expense recorded in connection with the remeasurement of certain deferred tax assets and liabilities and the zero transition tax on the mandatory deemed repatriation of foreign earnings was a provisional amount and a reasonable estimate at December 31, 2017. A more detailed analysis of the Company's deferred tax assets and liabilities and its historical foreign earnings as well as potential correlative adjustments was completed in 2018, which resulted in an additional benefit of \$0.6 million in the first quarter of 2018 and minimal adjustments in the fourth quarter of 2018. As of December 31, 2018, the Company has completed its accounting for the tax effects of enactment of the Tax Act.

The Company paid cash relating to taxes totaling \$8.1 million, \$15.6 million, and \$3.3 million for the years ended December 31, 2019, 2018, and 2017, respectively.

The Company's deferred tax assets and liabilities are as follows:

(U.S. Dollars, in thousands) Intangible assets and goodwill Inventories and related reserves Deferred revenue and cost of goods sold Other accruals and reserves	\$ <b>2019</b> 1,390	2018
Inventories and related reserves  Deferred revenue and cost of goods sold	\$ 1,390	
Deferred revenue and cost of goods sold		\$ 1,682
<u> </u>	13,216	12,151
Other accruals and reserves	4,652	4,652
Other decidals and reserves	4,337	2,799
Accrued compensation	9,221	8,317
Allowance for doubtful accounts	971	2,346
Net operating loss and tax credit carryforwards	44,230	52,664
Lease liabilities	6,268	_
Other, net	1,567	2,200
	85,852	86,811
Valuation allowance	(38,741)	(49,014)
Deferred tax asset	\$ 47,111	\$ 37,797
Withholding taxes	(40)	_
Property, plant and equipment	(5,881)	(4,569)
Right-of-use lease assets	(6,073)	_
Deferred tax liability	(11,994)	(4,569)
Net deferred tax assets	\$ 35,117	\$ 33,228

The Company accounts for income taxes using the asset and liability method, under which deferred tax assets and liabilities are recognized for the expected future tax consequences of temporary differences between the financial reporting and income tax basis of assets and liabilities, and for operating losses and credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the years in which those items are expected to be realized. Tax law and rate changes are recorded in the period such changes are enacted. The Company establishes a valuation allowance when it is more likely than not that certain deferred tax assets will not be realized in the foreseeable future.

The valuation allowance is primarily attributable to net operating loss carryforwards and temporary differences in certain foreign jurisdictions. The net decrease in the valuation allowance of \$10.3 million during the year principally relates to the decrease of valuation allowances on net operating loss carryforwards in foreign jurisdictions due to expiration, statutory rate changes, and changes regarding the realizability of net deferred tax assets. It is reasonably possible that the valuation allowance will decrease in 2020 related to expiration of foreign net operating losses.

The Company has federal net operating loss carryforwards of \$25.5 million and research and development credits of \$1.6 million as a result of the acquisition of Spinal Kinetics. These carryforwards are subject to limitation under the provisions of Section 382 and will begin to expire in 2026. The Company has state net operating loss carryforwards of approximately \$35.5 million, of which \$22.0 million relates to Spinal Kinetics and begins to expire in 2020. Additionally, the Company has net operating loss carryforwards in various foreign jurisdictions of approximately \$145.3 million that begin to expire in 2020, the majority of which relate to the Company's Netherlands and Brazil operations.

Prior to the Domestication, as an entity incorporated in Curaçao, "foreign earnings" referred to both U.S. and non-U.S. earnings. As a result of the Domestication, only income sourced outside of the U.S. is considered unremitted foreign earnings. Unremitted foreign earnings decreased from \$50.4 million at December 31, 2018 to \$49.2 million at December 31, 2019. The decrease is due to the impact of currency translation. As a result of the 2017 Tax Act, current year earnings have been deemed to be repatriated. Those foreign subsidiary earnings that are subject to U.S. taxation as a component of Global Intangible Low Taxed Income (GILTI) under the Tax Act are included as a component of current tax expense. The Company's investment in foreign subsidiaries continues to be indefinite in nature; however, the Company may periodically repatriate a portion of these earnings to the extent that it does not incur significant additional tax liability.

The Company records a benefit for uncertain tax positions when the weight of available evidence indicates that it is more likely than not, based on an evaluation of the technical merits, that the tax position will be sustained on audit. The tax benefit is measured as the largest amount that is more than 50% likely to be realized upon settlement. The Company re-evaluates income tax positions periodically to consider changes in facts or circumstances such as changes in or interpretations of tax law, effectively settled issues under audit, and new audit activity. The Company includes interest and any applicable penalties related to income tax issues as part of income tax expense in its consolidated financial statements.

The Company's unrecognized tax benefit was \$16.9 million and \$21.4 million for the years ended December 31, 2019 and 2018, respectively. The Company recorded net interest and penalties expense (benefit) on unrecognized tax benefits of \$(0.1) million, \$1.4 million, and \$2.3 million for the years ended December 31, 2019, 2018, and 2017, respectively, and had approximately \$6.6 million and \$6.7 million accrued for payment of interest and penalties as of December 31, 2019 and 2018, respectively. The entire amount of unrecognized tax benefits, including interest, would favorably impact the Company's effective tax rate if recognized. The Company believes it is reasonably possible that, in the next 12 months, the amount of unrecognized tax benefits, exclusive of interest and penalties, related to the resolution of federal, state and foreign matters could be reduced by \$13.0 million to \$13.5 million as audits close and statutes expire.

A reconciliation of the gross unrecognized tax benefits (excluding interest and penalties) for the years ended December 31, 2019, 2018, and 2017 follows:

(U.S. Dollars, in thousands)	2019	2018		
Balance as of January 1,	\$ 21,351	\$	23,676	
Additions for current year tax positions	309		170	
Increases for prior year tax positions	1,711		1,653	
Settlements of prior year tax positions	(1,183)		(1,499)	
Expiration of statutes	(5,284)		(2,649)	
Balance as of December 31,	\$ 16,904	\$	21,351	

The Company and its subsidiaries file income tax returns in the U.S. federal jurisdiction and in certain state and foreign jurisdictions, including Italy and the United Kingdom. The statute of limitations with respect to federal and state tax filings is closed for years prior to 2014. The statute of limitations with respect to the major foreign tax filing jurisdictions is closed for years prior to 2015.

During the third quarter of 2015, the Internal Revenue Service commenced an examination of the Company's federal income tax return for 2012. The Company concluded this examination in the first quarter of 2018 with no material impact to the financial statements. In October 2016, the Company was notified of an examination of its federal income tax return for 2013 and in December 2017, the examination for 2013 was concluded with no change. In November 2017, the Company was notified of an examination of its federal income tax return for 2015. In February 2019, the Company reached an agreement and concluded this examination. As a result, the Company recognized a benefit of approximately \$1.8 million during 2019. The Company cannot reasonably determine if any state and local or foreign examinations, will have a material impact on its financial statements and cannot predict the timing regarding resolution of these tax examinations.

#### 20. Earnings per share (EPS)

The Company uses the two-class method of computing basic EPS due to the existence of non-vested restricted stock awards with nonforfeitable rights to dividends or dividend equivalents (referred to as participating securities). Basic EPS is computed using the weighted average number of common shares outstanding during each of the respective years. Diluted EPS is computed using the weighted average number of common and common equivalent shares outstanding during each of the respective years using the

more dilutive of either the treasury stock method or two-class method. The difference between basic and diluted shares, if any, largely results from common equivalent shares, which represents the dilutive effect of the assumed exercise of certain outstanding share options, the assumed vesting of restricted stock granted to employees and directors, or the satisfaction of certain necessary conditions for contingently issuable shares (see Note 17).

For each of the three years ended December 31, 2019, 2018, and 2017, no significant adjustments were made to net income for purposes of calculating basic and diluted EPS. The following is a reconciliation of the weighted average shares used in the diluted EPS computations.

	Year Ended December 31,					
	2019	2018	2017			
Weighted average common shares-basic	18,903,289	18,494,002	18,117,405			
Effect of diluted securities:						
Unexercised stock options and employee stock purchase plan	_	313,648	209,691			
Unvested time-based restricted stock awards	_	_	123,592			
Unvested performance-based restricted stock awards	_	103,960	48,057			
Weighted average common shares-diluted	18,903,289	18,911,610	18,498,745			

There were 1,704,708, 349,930 and 418,859 weighted average outstanding options, restricted stock, and performance-based or market-based equity awards not included in the diluted earnings per share computation for the years ended December 31, 2019, 2018, and 2017, respectively, because inclusion of these awards was anti-dilutive or, for performance-based and market-based awards, all necessary conditions have not been satisfied by the end of the respective period.

#### 21. Quarterly financial data (unaudited)

						2019			
(U.S. Dollars, in thousands, except per share data)	1:	st Quarter	21	nd Quarter	3	rd Quarter	4	th Quarter	Year
Net sales	\$	109,112	\$	115,850	\$	113,499	\$	121,494	\$ 459,955
Cost of sales		23,708		25,812		24,896		26,191	100,607
Gross profit		85,404		90,038		88,603		95,303	359,348
Operating expense		89,852		89,587		107,485		91,208	378,132
Operating income (loss)		(4,448)		451		(18,882)		4,095	(18,784)
Net income (loss) from continuing operations		897		(547)		(40,498)		11,686	(28,462)
Net income (loss)	\$	897	\$	(547)	\$	(40,498)	\$	11,686	\$ (28,462)
Net income (loss) per common share — basic:									 
Net income (loss) from continuing operations	\$	0.05	\$	(0.03)	\$	(2.14)	\$	0.61	\$ (1.51)
Net income (loss)	\$	0.05	\$	(0.03)	\$	(2.14)	\$	0.61	\$ (1.51)
Net income (loss) per common share — diluted:				,					
Net income (loss) from continuing operations	\$	0.05	\$	(0.03)	\$	(2.14)	\$	0.60	\$ (1.51)
Net income (loss)	\$	0.05	\$	(0.03)	\$	(2.14)	\$	0.60	\$ (1.51)

						2018				
(U.S. Dollars, in thousands, except per share data)		1st Quarter	21	nd Quarter	3	rd Quarter	4	Ith Quarter		Year
Net sales	\$	108,709	\$	111,547	\$	111,708	\$	121,078	\$	453,042
Cost of sales		24,147		22,835		24,020		25,626		96,628
Gross profit		84,562		88,712		87,688		95,452		356,414
Operating expense <sup>1</sup> , <sup>2</sup>		76,692		82,797		83,781		83,050		326,320
Operating income <sup>1, 2</sup>		7,870		5,915		3,907		12,402		30,094
Net income (loss) from continuing operations <sup>2</sup>		5,226		925		(1,211)		8,871		13,811
Net income (loss)	\$	5,226	\$	925	\$	(1,211)	\$	8,871	\$	13,811
Net income (loss) per common share — basic:				,		,				
Net income (loss) from continuing operations	\$	0.28	\$	0.05	\$	(0.07)	\$	0.47	\$	0.73
Net income (loss)	\$	0.28	\$	0.05	\$	(0.07)	\$	0.47	\$	0.73
Net income (loss) per common share — diluted:				,		,				
Net income (loss) from continuing operations	\$	0.27	\$	0.05	\$	(0.07)	\$	0.46	\$	0.72
Net income (loss)	Ś	0.27	Ś	0.05	\$	(0.07)	Ś	0.46	Ś	0.72

2018

#### 22. Subsequent events

On February 3, 2020, the Company, through a wholly owned subsidiary, entered into an Asset Purchase Agreement (the "Purchase Agreement") with Wittenstein SE ("Wittenstein"), a privately-held German-based company, to acquire assets associated with the FITBONE intramedullary lengthening system for limb lengthening of the femur and tibia bones. Under the terms of the Purchase Agreement, as consideration for the acquired assets, the Company will pay \$18 million in cash consideration and will enter into manufacturing supply contract with Wittenstein.

The acquisition is anticipated to close by the end of the first quarter of 2020, subject to customary closing conditions.

<sup>&</sup>lt;sup>1</sup> The Company reclassified \$1.1 million of previously reported expense during the second quarter of 2018 related to changes in fair value of contingent consideration in the table above to conform to current period presentation.

<sup>&</sup>lt;sup>2</sup> The Company reclassified less than \$10 thousand of previously reported net income (loss) from discontinued operations during the first, second, and third quarters of 2018 to continuing operations to conform to current period presentation.

#### DESCRIPTION OF THE REGISTRANT'S SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

As of December 31, 2019, Orthofix Medical Inc. ("Orthofix," the "Company," "we," "us" or "our") had one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"): our common stock, \$0.10 par value per share ("Common Stock").

#### **Description of Common Stock**

The following description of our Common Stock is a summary and does not purport to be complete. It is subject to and qualified in its entirety by reference to our Certificate of Incorporation (the "Certificate of Incorporation"), and our Bylaws (the "Bylaws"), each of which are incorporated by reference as an exhibit to the Annual Report on Form 10-K of which this Exhibit 4.2 is a part. We encourage you to read our Certificate of Incorporation, our Bylaws, and the applicable provisions of the Delaware General Corporation Law for additional information.

#### **Authorized Share Capital**

Our authorized share capital consists of 50,000,000 shares of Common Stock. The Certificate of Incorporation does not provide for the issuance of preferred stock. The outstanding shares of our Common Stock are fully paid and nonassessable.

Our Common Stock carries the following rights:

- Voting. Except as otherwise required by law, the holders of Common Stock possess all voting power for the election of the Company's directors and all other matters requiring shareholder action and will at all times vote together as one class on all matters submitted to a vote of the shareholders. Holders of Common Stock are entitled to one vote per share on matters to be voted on by shareholders. There are no cumulative voting rights with respect to the election of directors or any other matters.
- Dividends and distributions. The holders of Common Stock have the right to receive dividends and distributions, whether payable in cash or otherwise, as may be declared from time to time by the Company's board of directors, from legally available funds.
- Liquidation, dissolution or winding up. In the event of the liquidation, dissolution or winding-up of the Company, holders of the Common Stock are entitled to participate in the distribution of any assets of the Company remaining after payment of all creditors and the liquidation preferences of any preferred stock that may be outstanding at the time.
- Restrictions on transfer. Neither the Certificate of Incorporation nor the Bylaws contain any restrictions on the transfer of the Common Stock. However, in the case of any transfer of shares, there may be restrictions imposed by applicable securities laws or by the terms of restricted share award grants.
- Redemption, conversion or preemptive rights. Holders of Common Stock have no preemptive or other subscription rights and there are no sinking fund or redemption provisions applicable to the Common Stock.

#### Dividends

We have not paid dividends to holders of Common Stock in the past and have no present intention to pay dividends to holders of Common Stock in the foreseeable future. We currently intend to retain all of our consolidated earnings to finance the continued growth of our business.

In the event that we decide to pay a dividend to holders of our Common Stock in the future with dividends received from our subsidiaries, we may, based on prevailing rates of taxation, be required to pay additional withholding and income tax on such amounts.

The payment of any cash dividends in the future will be within the discretion of the Board at such time. Further, if we incur any indebtedness, our ability to declare dividends may be limited by restrictive covenants we may agree to in connection therewith.

#### Certain Anti-Takeover Provisions of Delaware Law and the Proposed Organizational Documents

The Certificate of Incorporation and Bylaws contain anti-takeover provisions that may have the effect of delaying or preventing a change in control or changes in our management, include the following anti-takeover provisions:

- the inability of our shareholders to act without a meeting of the shareholders;
- rules regarding how shareholders may present proposals or nominate directors for election at shareholder meetings; and
- the ability of our directors, and not shareholders, to fill vacancies on the Board.

These provisions may frustrate or prevent any attempts by our shareholders to replace or remove our current management by making it more difficult for shareholders to replace members of our Board, which is responsible for appointing the members of our management, and may discourage, delay or prevent a transaction involving a change in control of the Company that is in the best interest of our minority shareholders. Even in the absence of a takeover attempt, the existence of these provisions may adversely affect the prevailing market price of our common stock if shareholders view them as discouraging future takeover attempts.

In addition, we are subject to provisions of Delaware law, including Section 203 of the DGCL. Section 203 of the DGCL prohibits a Delaware corporation from engaging in a "business combination" with an "interested stockholder" for three years following the date that such person becomes an interested stockholder, unless certain exceptions apply. With certain exceptions, an "interested stockholder" is a person or group who or which owns 15% or more of the corporation's outstanding voting stock (including any rights to acquire stock pursuant to an option, warrant, agreement, arrangement or understanding, or upon the exercise of conversion or exchange rights, and stock with respect to which the person has voting rights only), or is an affiliate or associate of the corporation and was the owner of 15% or more of such voting stock at any time within the previous three years.

For purposes of Section 203 of the DGCL, the term "business combination" is defined broadly to include (i) mergers with or caused by the interested stockholder, (ii) sales or other dispositions to the interested stockholder (except proportionately with the corporation's other stockholders) of assets of the corporation or a subsidiary equal to 10% or more of the aggregate market value of the corporation's consolidated assets or its outstanding stock, (iii) the issuance or transfer by the corporation or a subsidiary of stock of the corporation or such subsidiary to the interested stockholder, or (iv) receipt by the interested stockholder (except proportionately as a stockholder), directly or indirectly, of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation or a subsidiary.

The three-year moratorium imposed on business combinations by Section 203 does not apply under the following situations: (i) prior to the date on which such stockholder becomes an interested stockholder, the board of directors approved the business combination or the transaction which resulted in the person becoming an interested stockholder, (ii) the interested stockholder owns 85% of the corporation's voting stock upon consummation of the transaction which made him or her an interested stockholder, or (iii) on or after the date such person becomes an interested stockholder, the business combination is approved by the board of directors and is also approved at a stockholder meeting by 66-2/3% of the voting stock not owned by the interested stockholder.

Section 203 of the DGCL only applies to Delaware corporations which have a class of voting stock that is listed on a national securities exchange or held of record by more than 2,000 stockholders.

#### Listing of Securities

Our Common Stock is listed and traded on the Nasdag Global Select Market under the symbol "OFIX."

#### Transfer Agent

The transfer agent for the Common Stock is Computershare Trust Company, N.A.

## ORTHOFIX MEDICAL INC. AMENDED AND RESTATED 2012 LONG-TERM INCENTIVE PLAN

## PERFORMANCE STOCK UNIT AGREEMENT COVER SHEET

Orthofix Medical Inc., a Delaware corporation (the "Company"), hereby grants performance stock units (the "Performance Stock Units") relating to shares of the Company's common stock, par value \$0.10 per share (the "Stock") to the Grantee named below, subject to the achievement of performance goals and vesting conditions set forth below. Additional terms and conditions of the Performance Stock Units are set forth on this cover sheet and in the attached Performance Stock Unit Agreement (together, the "Agreement"), in the Company's 2012 Long-Term Incentive Plan (as amended from time to time, the "Plan"), and in the Change in Control and Severance Agreement between you and the Company or, if you have not entered into such Change in Control and Severance Agreement as of the Grant Date, the form of such agreement that was been approved by the Committee on June 28, 2016 (as applicable, the "Severance Agreement").

Grant Date:	
Name of Grantee:	
Employee ID Number:	
Threshold Number of Performance Stock Units:	50% of Target Number
Target Number of Performance Stock Units:	
Maximum Number of Performance Stock Units:	200% of Target Number
Performance Period:	•Beginning on and •Ending on 1
You agree to all of the terms and conditions described is unless you deliver a notice in writing within thirty (30) days of reaccept the terms and conditions described in this Agreement and in Plan and agree that the Plan will control in the event any provision  1 Performance period end date to be third anniversary of the beginning date (such that	the Plan. You acknowledge that you have carefully reviewed the of this Agreement should appear to be inconsistent.

Attachment
This is not a stock certificate or a negotiable instrument.

#### AMENDED AND RESTATED 2012 LONG-TERM INCENTIVE PLAN

#### PERFORMANCE STOCK UNIT AGREEMENT

### Performance **Stock Units**

This Agreement evidences an award of Performance Stock Units in the number set forth on the cover sheet and subject to the terms and conditions set forth in the Agreement and the Plan.

Subject to satisfaction of the time-based vesting requirement set forth below, the number of shares of Stock, if any, that may be issued pursuant to the terms of this Agreement will be calculated based on the attainment, as determined by the Committee, of the performance goals described in Exhibit A to this Agreement (the "Performance Goals") over the Performance Period set forth on the cover sheet, which number of shares of Stock may be equal to all or a portion, including none, of the Maximum Number of Performance Stock Units set forth on the cover sheet. If the Performance Goals are not achieved during the Performance Period at a vesting percentage (as described on Exhibit A) in excess of zero, you will forfeit all of your unvested Performance Stock Units as of the end of the Performance Period, except as otherwise provided in this Agreement.

## Performance Stock Unit

Prior to the Settlement Date (as defined below), your Performance Stock Units may not be sold, assigned, transferred, pledged, hypothecated, or otherwise encumbered, Transferability whether by operation of law or otherwise, nor may the Performance Stock Units be made subject to execution, attachment, or similar process. If you attempt to do any of these things, you will immediately and automatically forfeit your Performance Stock Units.

#### Vesting

Your Performance Stock Units will vest and become non-forfeitable on (A) the date the Committee certifies the achievement of the Performance Goals following the close of the Performance Period or, (B) in the event of a Change in Control consummated prior to the end of the Performance Period, the last day of the Performance Period (in each case, the "Vesting Date"), and subject to your continued Service from the Grant Date through the Vesting Date, but only to the extent and in the vesting percentage that the Performance Goals have been satisfied. (By way of illustration, if your service continues through the Vesting Date and the Committee certifies the Performance Goals at a vesting percentage equal to 50%, the Threshold Number of your Performance Stock Units would vest, whereas if your service continues through the Vesting Date and the Committee certifies the Performance Goals at a vesting percentage equal to 200%, the Maximum Number of your Performance Stock Units would vest.) Promptly following the completion of the Performance Period (and no later than thirty (30) days

following the end of the Performance Period) or, in the event of a Change in Control consummated prior to the end of the Performance Period, within 30 calendar days of such Change in Control, the Committee will review and certify in writing (i) whether, and to what extent, the Performance Goals for the Performance Period have been achieved and (ii) the number of Performance Stock Units that will vest (based on the applicable vesting percentage determined in accordance with  $\underline{\bf Exhibit}$   $\underline{\bf A}$ ). Such certification will be final, conclusive, and binding.

You will forfeit to the Company all of the unvested Performance Stock Units to the extent the specified Performance Goals have not been achieved, as determined by the Committee, effective as of the Vesting Date.

Vesting upon of Service Prior to a Change in Control

Death or Disability. If, prior to a Change in Control, your Service terminates during the Performance Period as a result of your death or Disability, your Performance **Termination** Stock Units will vest as to the Target Number of Performance Stock Units set forth on the cover sheet on the effective date of your termination of Service. If your Service terminates following the end of the Performance Period but prior to the Vesting Date as a result of your death or Disability, your Performance Stock Units will vest to the extent and in the vesting percentage that the Performance Goals have been satisfied as if your Service had not terminated, effective as of the Vesting Date.

> Certain Terminations without Cause or for Good Reason. If, prior to a Change in Control, your Service terminates more than 6 months after the Grant Date but prior to the Vesting Date because of your involuntary termination of Service by the Company without Cause or your voluntary termination for Good Reason, you will remain eligible to vest on the Vesting Date (to the extent and in the vesting percentage that the Performance Goals are satisfied) with respect to a pro rata portion of the Performance Stock Units as if your Service had not terminated, which pro rata portion will be calculated by multiplying the total number of the Performance Stock Units that would vest based on actual performance (i.e., the Target Number of Performance Share Units multiplied by the applicable vesting percentage determined in accordance with **Exhibit A**) by a fraction, the numerator of which equals the number of days that you provided Service during the Performance Period and the denominator of which equals the total number of days in the Performance Period, effective as of the Vesting Date.

> Certain Terminations upon Qualified Retirement. If, prior to a Change in Control, your Service terminates more than 6 months after the Grant Date but prior to the Vesting Date because of your Qualified Retirement you will remain eligible to vest on the Vesting Date (to the extent and in the vesting percentage that the Performance Goals are satisfied) with

> respect to a pro rata portion of the Performance Stock Units as if your Service had not terminated, which pro rata portion will be calculated by multiplying the total number of the Performance Stock Units that would vest based on actual performance by an additional percentage, which percentage shall be:

- •If termination of Service because of Qualified Retirement occurs more than 6 months but no more than 12 months after the Grant Date, then the additional multiplier percentage shall be 33.3%;
- •If termination of Service because of Qualified Retirement occurs more than 12 months but no more than 24 months after the Grant Date, then the additional multiplier percentage shall be 66.7%; and
- •If termination of Service because of Qualified Retirement occurs more than 24 months after the Grant Date, then the additional multiplier percentage shall be 100%.

Other Terminations. If, prior to the Vesting Date, your Service terminates (i) because of your involuntary termination of Service by the Company for Cause, (ii) because of your voluntary termination other than for Good Reason, Qualified Retirement or Disability, or (iii) because of a Qualified Retirement within the first six months following the Grant Date, you will forfeit to the Company all of the unvested portion of the Performance Stock Units on the date of your termination of Service.

#### Change in Control

Notwithstanding the vesting schedule set forth above, upon the consummation of a Change in Control during the Performance Period, the Performance Goals will be deemed achieved at the greater of (i) a percentage of 100% (i.e., the Target Number) or (ii) the percentage that would be determined pursuant to the methodology set forth on Exhibit A assuming that the "Ending Period Average Price" on Exhibit A were calculated based on closing prices per share over the twenty consecutive trading days ending with the last trading date preceding the consummation of such Change in Control. If the Performance Stock Units are assumed or continued in connection with such Change in Control, such Performance Stock Units shall thereafter become a time-based award and shall vest and become non-forfeitable, at the percentage determined pursuant to the preceding sentence, on the earlier to occur of (i) your continued status as a Service Provider through the last day of the Performance Period or (ii) your termination of Service during the period following the consummation of such Change in Control and prior to full vesting as a result of (A) death, (B) Disability, (C) your involuntary termination of Service by the Company without Cause, (D) your voluntary termination for Good Reason or (E) your

Qualified Retirement. If the Performance Stock Units are assumed or continued in connection with the Change in Control and your Service terminates prior to end of the Performance Period (x) because of your involuntary termination of Service by the Company for Cause, (y) because of your voluntary termination other than for Good Reason, Qualified Retirement or Disability, you will forfeit to the Company all of the Performance Stock Units on the date of such termination of Service.

# Settlement Your rights to receive the shares of Stock represented by your vested Performance

Stock Units will become non-forfeitable on the Vesting Date, and the Performance PerformanceStock Units will be settled, converted into shares of Stock and delivered on the date Stock Units that is one year following the Vesting Date (the "Settlement Date"), subject to any reduction required in accordance with any "clawback" or recoupment policy, as described below). Notwithstanding the foregoing, such delayed settlement will not apply with respect to the vesting and settlement of Performance Stock Units upon (i) the consummation of a Change in Control that is also a "change in control event" within the meaning of Code Section 409A ("Section 409A"), in which case the Performance Stock Units shall settle, convert and be delivered within 30 calendar days of the end of the Performance Period (or if the Performance Stock Units are not assumed or continued in connection with the Change in Control, within 30 calendar days of such Change in Control), or (ii) upon your termination of Service for death or Disability, in which case the Performance Stock Units shall settle, convert and be delivered within 30 calendar days of such termination of Service. On the date on which shares of Stock are delivered to you (or your beneficiary or, if none, your estate in the event of your death) under this paragraph, the Company shall also deliver to you (or your beneficiary or, if none, your estate in the event of your death) the number of additional shares of Stock, the number of any other securities of the Company and the amount of any other property (in the case of cash dividends, assuming such dividends had been reinvested in shares of Stock as of the ex-dividend date thereof), in each case that the Company distributed per share of Stock to holders generally during the period commencing on the first day of the Performance Period and ending on the delivery date, multiplied by the number of shares of Stock that are being delivered to you under this paragraph, without interest, and less any tax withholding amount applicable to such distribution. To the extent that the Performance Stock Units are forfeited prior to vesting, the right to receive such distributions shall also be forfeited.

## Issuance

Evidence of The issuance of the shares of Stock with respect to the Performance Stock Units will be evidenced in such a manner as the Company, in its discretion, deems appropriate, including, without limitation, book-entry, registration, or issuance of one or more share certificates.

# Withholding

In the event that the Company or any Affiliate determines that any federal, state, local, or foreign tax or withholding payment is required relating to the Performance Stock Units, or the issuance of shares of Stock with respect to the Performance Stock Units, the Company or any Affiliate will have the right to (i) require you to tender a cash payment, (ii) deduct from payments of any kind otherwise due to you, (iii) permit or require you to enter into a "same day sale" commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority (a "FINRA **Dealer**") whereby you irrevocably elect to sell a portion of the shares of Stock to be delivered in connection with the Performance Stock Units to satisfy withholding obligations and whereby the FINRA Dealer irrevocably commits to forward the proceeds necessary to satisfy the withholding obligations directly to the Company or any Affiliate, or (iv) withhold the delivery of vested shares of Stock otherwise deliverable under this Agreement to meet such obligations; provided, however, that (x) the shares of Stock so withheld will have an aggregate Fair Market Value not exceeding the minimum amount of tax required to be withheld by Applicable Law and (y) in the event that you are subject to any tax withholding on a date prior to the Settlement Date, clauses (iii) and (iv) shall not be available as a means of satisfying such tax withholding obligations.

# **Retention Rights**

This Agreement and the Performance Stock Units evidenced by this Agreement do not give you the right to be retained by the Company or any Affiliate in any capacity. The Company or any Affiliate, as applicable, reserves the right to terminate your Service with the Company or an Affiliate at any time and for any reason.

# **Shareholder Rights**

You have no rights as a shareholder with respect to the Performance Stock Units unless and until the Stock relating to the Performance Stock Units has been delivered to you. No adjustments are made for dividends, distributions, or other rights if the applicable record date occurs before your certificate is issued (or an appropriate book entry is made), except as described in the Plan.

# Clawback

The Performance Stock Units are subject to mandatory repayment by you to the Company to the extent you are or in the future become subject to any Company "clawback" or recoupment policy or Applicable Laws that require the repayment by you to the Company of compensation paid by the Company to you in the event that you fail to comply with, or violate, the terms or requirements of such policy or Applicable Laws.

# **Applicable Law**

This Agreement will be interpreted and enforced under the laws of the State of Delaware, other than any conflicts or choice of law rule or principle that might otherwise refer construction or interpretation of this Agreement to the substantive law of another jurisdiction.

# **Definitions**

For purposes of this Agreement, "Cause," "Good Reason" and "Qualified Retirement" will be as defined in the Severance Agreement. Any other capitalized terms used in this Agreement other than the foregoing (and other than those defined and used in Exhibit A hereto) shall have the meanings set forth in the Plan.

# The Plan

The text of the Plan is incorporated in this Agreement by reference.

This Agreement, the Plan, and the Severance Agreement constitute the entire understanding between you and the Company regarding the Performance Stock Units. Any prior agreements, commitments, or negotiations concerning the Performance Stock Units are superseded.

# **Data Privacy**

To administer the Plan, the Company may process personal data about you. Such data includes, but is not limited to, information provided in this Agreement and any changes thereto, other appropriate personal and financial data about you, such as your contact information, payroll information, and any other information that might be deemed appropriate by the Company to facilitate the administration of the Plan. By accepting the Performance Stock Units, you give explicit consent to the Company to process any such personal data.

# **Disclaimer of Rights**

The grant of Performance Stock Units under this Agreement will in no way be interpreted to require the Company to transfer any amounts to a third party trustee or otherwise hold any amounts in trust or escrow for payment to you. You will have no rights under this Agreement or the Plan other than those of a general unsecured creditor of the Company. Performance Stock Units represent unfunded and unsecured obligations of the Company, subject to the terms and conditions of the Plan and this Agreement.

# **Electronic Delivery**

By accepting the Performance Stock Units, you consent to receive documents related to the Performance Stock Units by electronic delivery and, if requested, agree to participate in the Plan through an on-line or electronic system established and maintained by the Company or another third party designated by the Company, and your consent shall remain in effect throughout your term of Service and thereafter until you withdraw such consent in writing to the Company.

# **Code Section 409A**

The grant of Performance Stock Units under this Agreement is intended to comply with Section 409A" to the extent subject thereto, and, accordingly, to the maximum extent permitted, this Agreement will be interpreted and administered to be in compliance with Section 409A. Notwithstanding anything to the contrary in the Plan or this Agreement, neither the Company, its Affiliates, the Board, nor the Committee will have any obligation to take any action to prevent the assessment of any excise tax or penalty on you under Section 409A, and neither the Company, its Affiliates, the Board, nor the Committee will have any

liability to you for such tax or penalty.

To the extent that the Performance Share Units constitute "deferred compensation" under Section 409A, a termination of Service occurs only upon an event that would be a Separation from Service within the meaning of Section 409A. If, at the time of your Separation from Service, (1) you are a "specified employee" within the meaning of Section 409A, and (2) the Company makes a good faith determination that an amount payable on account of your Separation from Service constitutes deferred compensation (within the meaning of Section 409A), the payment of which is required to be delayed pursuant to the six (6)-month delay rule set forth in Section 409A to avoid taxes or penalties under Section 409A (the "Delay Period"), then the Company will not pay such amount on the otherwise scheduled payment date but will instead pay it in a lump sum on the first business day after the Delay Period (or upon your death, if earlier), without interest. Each installment of Performance Share Units that vest under this Agreement (if there is more than one installment) will be considered one of a series of separate payments for purposes of Section 409A.

By accepting this Agreement, you agree to all of the terms and conditions described above and in the Plan. In the event that any term of this Agreement conflicts with the terms of the Severance Agreement, the terms of the Severance Agreement shall supersede the conflicting terms herein.

# **EXHIBIT A**

# PERFORMANCE STOCK UNIT AGREEMENT

# PERFORMANCE GOALS

The Performance Stock Units will vest based on the percentile rank of the common stock of the Company's Performance Period TSR in relation to the Performance Period TSR of the Index Companies. Such percentile ranking will be determined by ordering the Index Companies (plus the Company if the Company is not one of the Index Companies) from highest to lowest based on Performance Period TSR and counting down from the company with the highest Performance Period TSR (ranked first) to the Company's position on the list. (If two companies are ranked equally, the ranking of the next company shall account for the tie, so that if one company is ranked first, and two companies are tied for second, the next company is ranked fourth.) After this ranking, the Performance Period TSR percentile ranking will be calculated using the following formula, rounded to the nearest whole percentile by application of regular rounding:

Performance Period TSR percentile ranking = (N-R)/(N-1)\*100

"N" represents the number of Index Companies for the Performance Period (plus one if the Company is not one of the Index Companies for the Performance Period).

"R" represents the Company's ranking among the Index Companies (including the Company if the Company is not one of the Index Companies for the Performance Period).

For example, if there are 100 Index Companies (including the Company), and the Company ranked 40th, the Performance Period TSR percentile ranking would be the 61st percentile (61% = (100 - 40)/(100 - 1) \* 100, rounded to the nearest whole percentile by application of regular rounding).

Achieved vesting percentages shall be as follows:

Company's Performan	ice Period		
TSR Percentile Rank		<u>Vesting Percentage</u>	
Below 25th Percentile			0%
25th Percentile			50% (Threshold)
30th Percentile			60%
35th Percentile			70%
40th Percentile			80%
45th Percentile			90%
50th Percentile	100% (Target)		
55th Percentile	120%		
60th Percentile	140%		
65th Percentile	160%		
70th Percentile	180%		
75th Percentile or Greater	200% (Maxim	um)	

In the event the Company's Performance Period TSR percentile rank falls between any of the amounts set forth above (to the extent greater than the Threshold and lower than the Maximum), the vesting percentage shall be determined by linear interpolation between such amounts.

Notwithstanding the foregoing, (i) in no event shall the vesting percentage exceed 100% if the Company's Performance Period TSR is negative, and (ii) in no event shall the vesting percentage exceed an amount such that the product of the vesting percentage multiplied by the closing price of the Company's common stock on [ ]<sup>2</sup> is greater than five times the closing price of the Company's common stock on [ ]<sup>3</sup>.

For purposes of this Exhibit A, the following capitalized terms shall mean as follows:

- "Beginning Period Average Price" means the average official closing price per share of the respective company over the twenty consecutive trading days ending with and including the first day of the Performance Period.
- **"Ending Period Average Price"** means the average official closing price per share of the respective company over the twenty consecutive trading days ending with and including the last day of the Performance Period.
- "Index Companies" means companies that are included in the [ ]<sup>4</sup> as of the beginning of the Performance Period, with the following adjustments:
  - i. In the event of a merger, acquisition or business combination transaction of an Index Company with or by another Index Company, the surviving entity shall remain an Index Company.
  - ii. In the event of a merger of an Index Company with an entity that is not an Index Company, or the acquisition or business combination transaction by or with an Index Company, or with an entity that is not an Index Company, in each case where the Index Company is the surviving entity and remains publicly traded, the surviving entity shall remain an Index Company.
  - iii. In the event of a merger or acquisition or business combination transaction of an Index Company by or with an entity that is not an Index Company, a "going private" transaction involving an Index Company or the liquidation of an Index Company, where the Index Company is not the surviving entity or is otherwise no longer publicly traded, the company shall no longer be an Index Company.
  - iv. In the event of a bankruptcy of an Index Company, such company shall remain an Index Company (with such Index Company being deemed to have a Performance Period TSR of negative 100%).

<sup>&</sup>lt;sup>2</sup> Insert performance period end date.

<sup>&</sup>lt;sup>3</sup> Insert performance period beginning date.

<sup>&</sup>lt;sup>4</sup> For grants made in 2018 or earlier, insert S&P Healthcare Select Index. For grants made in 2019 or later, insert S&P Healthcare Equipment Select Index.

v. In the event of a stock distribution from an Index Company consisting of the shares of a new publicly-traded company (a "spin-off"), the Index Company shall remain an Index Company and the stock distribution shall be treated as a dividend from the Index Company based on the closing price of the shares of the spun-off company on its first day of trading (with the amount of such dividend deemed reinvested in additional shares of the Index Company at the closing price of the shares of the Index Company on the same date). The performance of the shares of the spun-off company shall not thereafter be tracked for purposes of calculating Performance Period TSR.

"Performance Period TSR" means total shareholder return as determined by dividing (i) the sum of (A) the Ending Period Average Price minus the Beginning Period Average Price plus (B) all dividends and other distributions paid on a company's shares during the Performance Period by (ii) the Beginning Period Average Price. In calculating TSR, all dividends are assumed to have been reinvested in shares when paid. The Committee shall have the authority to make appropriate equitable adjustments to account for extraordinary items affecting a company's Performance Period TSR.

# Stock Unit Grant Agreement under the Orthofix Medical Inc. Amended and Restated 2012 Long-Term Incentive Plan

This Stock Unit Grant Agreement (the "Agreement") is made this 1st day of April, 2019 (the "Grant Date") between Orthofix Medical Inc., a Delaware corporation (the "Company"), and the person signing this Agreement adjacent to the caption "Award Recipient" on the signature page hereof (the "Award Recipient"). Capitalized terms used and not otherwise defined herein shall have the meanings attributed thereto in the Amended and Restated Orthofix Medical Inc. 2012 Long-Term Incentive Plan (the "Plan").

WHEREAS, pursuant to the Plan, the Company desires to afford the Award Recipient the opportunity to acquire shares of Stock on the terms and conditions set forth herein;

NOW, THEREFORE, in connection with the mutual covenants hereinafter set forth and for other good and valuable consideration, the parties hereto agree as follows:

# 1. Grant of Stock Units.

- (a) Number of Shares/Vesting. The Company hereby grants to the Award Recipient, on the Grant Date, Stock Units under the Plan relating to 35,587 shares of Stock, subject to the vesting schedule and terms and conditions set forth below (the "Award"). Subject to earlier termination in accordance with the Plan or this Agreement and the terms and conditions herein, Stock Units granted under this Agreement shall vest with respect to all of the shares of Stock covered hereby on the first anniversary of the Grant Date (the "Vesting Date") provided that Award Recipient (i) has remained employed by the Company through the Target Retirement Date (as defined in the Transition and Retirement Agreement) or otherwise has had his employment with the Company terminated by the Company without Cause (as defined in the Change in Control and Severance Agreement) prior to the Target Retirement Date and (ii) has complied with the terms of the Consulting Agreement (as defined in the Transition and Retirement Agreement) through the Vesting Date; provided further, however, for the avoidance of doubt, that there shall be no proportionate or partial vesting in the period prior to the Vesting Date.
- (b) <u>Additional Documents</u>. The Award Recipient agrees to execute such additional documents and complete and execute such forms as the Company may require for purposes of this Agreement.
- (c) <u>Issuance of Stock</u>. The shares of Stock underlying the Award Recipient's vested Stock Units will be issued no later than 30 days following the Vesting Date (the date or dates such shares of Stock are delivered, the "Settlement Date"). The issuance of shares of Stock under this grant shall be evidenced in such a manner as the Company, in its discretion, will deem appropriate, including, without limitation, book-entry registration or issuance of one or more stock certificates. On the Settlement Date, the Company shall also deliver to the Award Recipient the number of additional shares of Stock, the number of any other securities of the Company and the amount of any other property (in the case of cash dividends, assuming such dividends had been reinvested in shares of Stock as of the ex-dividend date thereof), in each case that the Company distributed per share of Stock to holders generally during the period commencing on the Grant Date and ending on the applicable Settlement Date, multiplied by the number of shares of Stock that are being delivered to the Award Recipient under this paragraph, without interest, and less any tax withholding amount applicable to such distribution. To the extent that the Stock Units are forfeited prior to vesting, the right to receive such distributions shall also be forfeited.
- (d) Shareholder Rights. The Award Recipient has no rights as a shareholder with respect to the shares of Stock underlying the Stock Units unless and until the Stock relating to the Stock Units has been delivered. No adjustments are made for dividends, distributions, or other rights if the applicable record date occurs before the certificate is issued (or appropriate book entry is made), except as described above.
- 2. <u>Incorporation of Plan</u>. The Award Recipient acknowledges receipt of the Plan, a copy of which is annexed hereto, and represents that he is familiar with its terms and provisions and hereby accepts this grant of Stock Units subject to all of the terms and provisions of the Plan and all interpretations, amendments, rules and regulations which may, from time to time, be promulgated and adopted pursuant to the Plan. The Plan is incorporated herein by reference. In the event of any conflict or inconsistency between the Plan and this Agreement,

the Plan shall govern and this Agreement shall be interpreted to minimize or eliminate any such conflict or inconsistency.

- 3. <u>Restrictions on Transfer</u>. To the extent not yet vested, the Stock Units may not be sold, transferred, assigned, transferred, pledged, hypothecated, or otherwise encumbered or disposed of, whether by operation of law or otherwise, nor may the Stock Units be made subject to execution, attachment, or similar process. If the Award Recipient attempts to do any of these things, he will immediately and automatically forfeit the Stock Units.
  - Termination of Service; Change in Control.
- (a) <u>Certain Terminations of Service</u>. If the Award Recipient fails to satisfy the condition set forth in Section 1(a)(i) or the condition set forth in Section 1(a)(ii), in each case other than as a result of the Award Recipient's death or Disability prior to the Vesting Date, all of the Stock Units shall be forfeited by the Award Recipient and cancelled by the Company as of the date that such satisfaction failure occurs, and the Award Recipient shall have no further right or interest therein unless the Committee in its sole discretion shall determine otherwise.
- (b) <u>Termination of Service for Death or Disability</u>. If the Award Recipient fails to satisfy the condition set forth in Section 1(a)(i) and/or the condition set forth in Section 1(a)(ii), in each case solely as a result of the Award Recipient's death or Disability prior to the Vesting Date, the Stock Units shall automatically vest in full as of the date of the Award Recipient's termination of Service and shall be delivered within 30 days of such termination of Service.

# 5. <u>Withholding</u>.

The Company shall have the right to require the Award Recipient to remit to the Company and all amounts sufficient to satisfy any withholding or other taxes that may be due as a result of the issuance of shares of Stock subject to the Stock Units. At the time of the Settlement Date (or, in the event that tax withholding is required as of an earlier date, then such earlier date), the Award Recipient shall pay in cash to the Company any amount that the Company may reasonably determine to be necessary to satisfy such withholding or other tax obligation. The Company shall have the right, but not the obligation, to permit or require the Award Recipient to satisfy, in whole or in part, such obligation to remit withholding or other taxes, (a) by directing the Company to withhold shares of Stock that would otherwise become vested, or (b) by entering into a "same day sale" commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority (a "FINRA Dealer") whereby Award Recipient irrevocably elects to sell a portion of the shares of Stock to be delivered in connection with the Stock Units to satisfy withholding obligations and whereby the FINRA Dealer irrevocably commits to forward the proceeds necessary to satisfy the withholding obligations directly to the Company or any Affiliate in each case pursuant to such rules as the Committee may establish from time to time. The Company, in its sole discretion, may also permit, the Award Recipient to satisfy, in whole or in part, such obligation to remit withholding or other taxes, by delivering to the Company shares of Stock already owned by the Award Recipient and not then subject to any repurchase, forfeiture, unfulfilled vesting, or similar requirements. The Company shall also have the right to deduct from all cash payments made pursuant to, or in connection with, the Stock Units, the federal, state, or local taxes required to be withheld with respect to such payments. The maximum number of shares of Stock that may be withheld to satisfy any federal, state, or local tax requirements may not exceed such number of shares of Stock having a Fair Market Value equal to the minimum statutory amount required by the Company to be withheld and paid to any such federal, state, or local taxing authority with respect to such vesting or payment; provided, however, for so long as Accounting Standards Update 2016-09 or a similar rule remains in effect, the Committee has full discretion to choose, or to allow the Award Recipient to elect, to withhold a number of shares of Stock having an aggregate Fair Market Value that is greater than the applicable minimum required statutory withholding obligation (but such withholding may in no event be in excess of the maximum required statutory withholding obligation in such Award Recipient's relevant tax jurisdiction).

6. <u>No Employment or Other Rights.</u> This Award does not confer upon the Award Recipient any right to be continued in the employment of, or otherwise provide Services to, the Company or any Subsidiary or other affiliate thereof, or interfere with or limit in any way the right of the Company or any Subsidiary or other affiliate thereof to terminate such Award Recipient's employment or other service relationship at any time. For

purposes of this Agreement only, the term "employment" shall include circumstances under which Award Recipient provides consulting or other Services to the Company or any of its Subsidiaries as an independent contractor, but such Award Recipient is not, nor shall be considered, an employee; provided, however, nothing in this Section 6 or this Agreement shall create an employment relationship between such person and the Company or its applicable Subsidiary, as the usages described in this Section are for convenience only.

- 7. Adjustment of and Changes in Shares of Stock. In the event of any merger, consolidation, recapitalization, reclassification, stock dividend, extraordinary dividend, or other event or change in corporate structure affecting the shares of Stock, the Committee shall make such adjustments, if any, as it deems appropriate in the number and class of shares subject to the Stock Units. The foregoing adjustments shall be determined by the Committee in its sole discretion.
- 8. <u>Discretionary Nature of Plan</u>. The Plan is discretionary in nature, and the Company may suspend, modify, amend or terminate the Plan in its sole discretion at any time, subject to the terms of the Plan and any applicable limitations imposed by law. This Stock Unit grant under the Plan is a one-time benefit and does not create any contractual or other right to receive additional Stock Units or other benefits in lieu of Stock Units in the future. Future grants, if any, will be at the sole discretion of the Committee, including, but not limited to, the timing of any grant, the number of Stock Units granted, and the vesting provisions.
- 9. Section 409A. The grant of Stock Units under this Agreement is intended to comply with Code Section 409A to the extent subject thereto, and, accordingly, to the maximum extent permitted, this Agreement will be interpreted and administered to be in compliance with Code Section 409A. Notwithstanding anything to the contrary in the Plan or this Agreement, neither the Company, its Affiliates, the Board, nor the Committee will have any obligation to take any action to prevent the assessment of any excise tax or penalty on Award Recipient under Code Section 409A, and neither the Company, its Affiliates, the Board, nor the Committee will have any liability to Award Recipient for such tax or penalty. For purposes of this Agreement, a termination of Service occurs only upon an event that would be a Separation from Service within the meaning of Section 409A. If, at the time of Award Recipient's Separation from Service, (1) Award Recipient is a "specified employee" within the meaning of Code Section 409A, and (2) the Company makes a good faith determination that an amount payable on account of Award Recipient's Separation from Service constitutes deferred compensation (within the meaning of Code Section 409A), the payment of which is required to be delayed pursuant to the six (6)-month delay rule set forth in Code Section 409A to avoid taxes or penalties under Code Section 409A (the "Delay Period"), then the Company will not pay such amount on the otherwise scheduled payment date but will instead pay it in a lump sum on the first business day after the Delay Period (or upon Award Recipient's death, if earlier), without interest. Each installment of Stock Units that vest under this Agreement (if there is more than one installment) will be considered one of a series of separate payments for purposes of Code Section 409A.

## 10. <u>Miscellaneous Provisions</u>.

- (a) Applicable Law. The validity, construction, interpretation and effect of this instrument will be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to the conflicts of law provisions thereof.
- (b) Notice. Any notice required by the terms of this Agreement shall be delivered or made electronically, over the Internet or otherwise (with request for assurance of recipient in a manner typical with respect to communications of that type), or given in writing. Any notice given in writing shall be deemed effective upon personal delivery or upon deposit with the United States Postal Service, by registered or certified mail, with postage and fees prepaid, and shall be addressed to the Company at its principal executive office and to the Award Recipient at the address that he or she has most recently provided to the Company. Any notice given electronically shall be deemed effective on the date of transmission.
- (c) <u>Headings</u>. The headings of sections and subsections are included solely for convenience of reference and shall not affect the meaning of the provisions of this Agreement.
- (d) <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

#### Exhibit 10.12

- (e) Amendments. The Board and the Committee shall have the power to alter or amend the terms of the grant of Stock Units as set forth herein from time to time, in any manner consistent with the provisions of the Plan, and any alteration or amendment of the terms of this grant of Stock Units by the Board or the Committee shall, upon adoption, become and be binding on all persons affected thereby without requirement for consent or other action with respect thereto by any such person. The Committee shall give notice to the Award Recipient of any such alteration or amendment as promptly as practicable after the adoption thereof. The foregoing shall not restrict the ability of the Award Recipient and the Board or the Committee by mutual written consent to alter or amend the terms of this grant of Stock Units in any manner which is consistent with the Plan.
- (f) <u>Binding Effect</u>. This Agreement shall be binding upon the heirs, executors, administrators and successors of the Award Recipient and the Company.
- (g) Entire Agreement. This Agreement and the Plan constitute the entire agreement between the Award Recipient and the Company regarding the grant of Stock Units and supersede all prior arrangements or understandings (whether oral or written and whether express or implied) with respect thereto. In the event the Award Recipient has a Severance Agreement, any conflicts or ambiguities shall be resolved first by reference to the Severance Agreement, then to Plan, and finally to this Agreement.
  - 11. <u>Definitions</u>. For purposes of this Agreement, the following capitalized words shall have the meanings set forth below.
- "Change in Control and Severance Agreement" shall mean the Amended Change in Control and Severance Agreement, dated November 1, 2016, between the Award Recipient and the Company.
- "Transition and Retirement Agreement" shall mean the Transition and Retirement Agreement, dated February 25, 2019, between the Award Recipient and the Company.

"Separation from Service" shall have the meaning given such term in Code Section 409A.

(Remainder of page intentionally left blank)

COMPANY:	ORTHOFIX MEDICAL INC.	
	By: /s/ Bradley R. Mason	
	Name: Bradley R. Mason	
	Title: President and Chief Executive Officer	
AWARD RECIPIENT:		
	By:	
	Name: Bradley R. Mason	

# ORTHOFIX MEDICAL INC. AMENDED AND RESTATED 2012 LONG-TERM INCENTIVE PLAN

# Stock Unit Grant Agreement COVER SHEET

Orthofix Medical Inc., a Delaware corporation (the "Company"), hereby grants to the Award Recipient named below, on the Grant Date set forth below, the specified number of Stock Units relating to shares of the Company's common stock, par value \$0.10 per share (the "Stock") under the Plan, subject to the vesting schedule and terms and conditions set forth below (the "Award"). Additional terms and conditions of the Stock Units are set forth on this cover sheet, in the attached Stock Unit Grant Agreement (together, the "Agreement"), and in the Company's Amended and Restated 2012 Long-Term Incentive Plan (as amended from time to time, the "Plan"). Capitalized terms used and not otherwise defined herein shall have the meanings attributed thereto in the Plan.

Grant Date:	
Name of Award Recipient:	
Employee ID Number:	
Number of Shares of Stock Underlying Stock Units:	
You agree to all of the terms and conditions described in this Agreement and in the Plan this Agreement to the Company stating that you do not accept the terms and conditions have carefully reviewed the Plan and agree that the Plan will control in the event	described in this Agreement and in the Plan. You acknowledge that you
Attachment This is not a stock certificate or a no	egotiable instrument.

## ORTHOFIX MEDICAL INC. AMENDED AND RESTATED 2012 LONG-TERM INCENTIVE PLAN

#### Stock Unit Grant Agreement Attachment

1.	Grant	of	Stock	Uni

(a) <u>Vesting.</u> Subject to earlier termination in accordance with the Plan or this Agreement and the terms and conditions herein, Sto
Units granted under this Agreement shall vest with respect to all of the shares of Stock covered hereby on the second anniversary of the Grant Date (the "Vesting")
Date") provided that Award Recipient continues in Service and has not had a Separation from Service on each such date; provided, however, for the avoidance of
doubt, that there shall be no proportionate or partial vesting in the period prior to the Vesting Date unless otherwise provided under this Agreement or the Plan;
provided further, that for the avoidance of doubt, following Award Recipient's Separation from Service, no additional Stock Units shall vest.

- (b) <u>Additional Documents</u>. The Award Recipient agrees to execute such additional documents and complete and execute such forms as the Company may require for purposes of this Agreement.
- (c) <u>Issuance of Stock</u>. The shares of Stock underlying the Award Recipient's vested Stock Units will be issued as soon as practicable following the earlier of (i) the date that the Stock Units vest pursuant to the vesting schedule, or (ii) the date of the Award Recipient's termination of Service, but in no event later than March 15 of the calendar year that immediately follows the first of such events (the date or dates such shares of Stock are delivered, the "**Settlement Date**"). The issuance of shares of Stock under this grant shall be evidenced in such a manner as the Company, in its discretion, will deem appropriate, including, without limitation, book-entry registration or issuance of one or more stock certificates. On the Settlement Date, the Company shall also deliver to the Award Recipient the number of additional shares of Stock, the number of any other securities of the Company and the amount of any other property (in the case of cash dividends, assuming such dividends had been reinvested in shares of Stock as of the ex-dividend date thereof), in each case that the Company distributed per share of Stock to holders generally during the period commencing on the Grant Date and ending on the Settlement Date, multiplied by the number of shares of Stock that are being delivered to the Award Recipient under this paragraph, without interest, and less any tax withholding amount applicable to such distribution. To the extent that the Stock Units are forfeited prior to vesting, the right to receive such distributions shall also be forfeited.
- (d) Shareholder Rights. The Award Recipient has no rights as a shareholder with respect to the shares of Stock underlying the Stock Units unless and until the Stock relating to the Stock Units has been delivered. No adjustments are made for dividends, distributions, or other rights if the applicable record date occurs before the certificate is issued (or appropriate book entry is made), except as described above.
- 2. <u>Incorporation of Plan</u>. The Award Recipient acknowledges receipt of the Plan, a copy of which is annexed hereto, and represents that he is familiar with its terms and provisions and hereby accepts this grant of Stock Units subject to all of the terms and provisions of the Plan and all interpretations, amendments, rules and regulations which may, from time to time, be promulgated and adopted pursuant to the Plan. The Plan is incorporated herein by reference. In the event of any conflict or inconsistency between the Plan and this Agreement, the Plan shall govern and this Agreement shall be interpreted to minimize or eliminate any such conflict or inconsistency.
- 3. <u>Restrictions on Transfer</u>. To the extent not yet vested, the Stock Units may not be sold, transferred, assigned, transferred, pledged, hypothecated, or otherwise encumbered or disposed of, whether by operation of law or otherwise, nor may the Stock Units be made subject to execution, attachment, or similar process. If the Award Recipient attempts to do any of these things, he will immediately and automatically forfeit the Stock Units.
  - Termination of Service.

#### Exhibit 10.13

- (a) <u>Certain Terminations of Service</u>. If, prior to vesting, the Award Recipient's Service is terminated for any reason other than (i) death, (ii) Disability, (iii) termination by the Company without Cause or (iv) termination by the Award Recipient for Good Reason, the unvested portion of the Stock Units shall be forfeited by the Award Recipient and cancelled by the Company as of the date of the Award Recipient's termination of Service, and the Award Recipient shall have no further right or interest therein unless the Committee in its sole discretion shall determine otherwise.
- (b) <u>Termination of Service for Death or Disability</u>. If, prior to vesting, the Award Recipient's Service terminates by reason of death or Disability, the Stock Units shall automatically vest in full as of the date of the Award Recipient's termination of Service.
- 5. <u>Termination of Service by Company without Cause or by Award Recipient for Good Reason</u>. If, prior to vesting, the Award Recipient's Service is terminated by the Company without Cause or by the Award Recipient for Good Reason, the Stock Units shall automatically vest in full as of the date of the Award Recipient's termination of Service.
- 6. <u>Effect of Section 6 of Change in Control and Severance Agreement</u>. The Company and the Award Recipient agree that this Agreement and the Stock Awards granted hereunder are not subject to Section 6 of the Change in Control and Severance Agreement, and the Stock Awards granted hereunder do not constitute Time-Based Restricted Stock as defined in such Change in Control and Severance Agreement.

## Withholding.

The Company shall have the right to require the Award Recipient to remit to the Company and all amounts sufficient to satisfy any withholding or other taxes that may be due as a result of the issuance of shares of Stock subject to the Stock Units. At the time of the Settlement Date (or, in the event that tax withholding is required as of an earlier date, then such earlier date), the Award Recipient shall pay in cash to the Company any amount that the Company may reasonably determine to be necessary to satisfy such withholding or other tax obligation. The Company shall have the right, but not the obligation, to permit or require the Award Recipient to satisfy, in whole or in part, such obligation to remit withholding or other taxes, (a) by directing the Company to withhold shares of Stock that would otherwise become vested, or (b) by entering into a "same day sale" commitment with a broker-dealer that is a member of the Financial Industry Regulatory Authority (a "FINRA Dealer") whereby Award Recipient irrevocably elects to sell a portion of the shares of Stock to be delivered in connection with the Stock Units to satisfy withholding obligations and whereby the FINRA Dealer irrevocably commits to forward the proceeds necessary to satisfy the withholding obligations directly to the Company or any Affiliate in each case pursuant to such rules as the Committee may establish from time to time. The Company, in its sole discretion, may also permit, the Award Recipient to satisfy, in whole or in part, such obligation to remit withholding or other taxes, by delivering to the Company shares of Stock already owned by the Award Recipient and not then subject to any repurchase, forfeiture, unfulfilled vesting, or similar requirements. The Company shall also have the right to deduct from all cash payments made pursuant to, or in connection with, the Stock Units, the federal, state, or local taxes required to be withheld with respect to such payments. The maximum number of shares of Stock that may be withheld to satisfy any federal, state, or local tax requirements may not exceed such number of shares of Stock having a Fair Market Value equal to the minimum statutory amount required by the Company to be withheld and paid to any such federal, state, or local taxing authority with respect to such vesting or payment; provided, however, for so long as Accounting Standards Update 2016-09 or a similar rule remains in effect, the Committee has full discretion to choose, or to allow the Award Recipient to elect, to withhold a number of shares of Stock having an aggregate Fair Market Value that is greater than the applicable minimum required statutory withholding obligation (but such withholding may in no event be in excess of the maximum required statutory withholding obligation in such Award Recipient's relevant tax jurisdiction).

8. <u>No Employment or Other Rights.</u> This Award does not confer upon the Award Recipient any right to be continued in the employment of, or otherwise provide Services to, the Company or any Subsidiary or other affiliate thereof, or interfere with or limit in any way the right of the Company or any Subsidiary or other affiliate thereof to terminate such Award Recipient's employment or other service relationship at any time. For

purposes of this Agreement only, the term "employment" shall include circumstances under which Award Recipient provides consulting or other Services to the Company or any of its Subsidiaries as an independent contractor, but such Award Recipient is not, nor shall be considered, an employee; provided, however, nothing in this Section 7 or this Agreement shall create an employment relationship between such person and the Company or its applicable Subsidiary, as the usages described in this Section are for convenience only.

- 9. <u>Adjustment of and Changes in Shares of Stock.</u> In the event of any merger, consolidation, recapitalization, reclassification, stock dividend, extraordinary dividend, or other event or change in corporate structure affecting the shares of Stock, the Committee shall make such adjustments, if any, as it deems appropriate in the number and class of shares subject to the Stock Units. The foregoing adjustments shall be determined by the Committee in its sole discretion.
- 10. <u>Discretionary Nature of Plan</u>. The Plan is discretionary in nature, and the Company may suspend, modify, amend or terminate the Plan in its sole discretion at any time, subject to the terms of the Plan and any applicable limitations imposed by law. This Stock Unit grant under the Plan is a one-time benefit and does not create any contractual or other right to receive additional Stock Units or other benefits in lieu of Stock Units in the future. Future grants, if any, will be at the sole discretion of the Committee, including, but not limited to, the timing of any grant, the number of Stock Units granted, and the vesting provisions.
- 11. Section 409A. The grant of Stock Units under this Agreement is intended to comply with Code Section 409A to the extent subject thereto, and, accordingly, to the maximum extent permitted, this Agreement will be interpreted and administered to be in compliance with Code Section 409A. Notwithstanding anything to the contrary in the Plan or this Agreement, neither the Company, its Affiliates, the Board, nor the Committee will have any obligation to take any action to prevent the assessment of any excise tax or penalty on Award Recipient under Code Section 409A, and neither the Company, its Affiliates, the Board, nor the Committee will have any liability to Award Recipient for such tax or penalty. For purposes of this Agreement, a termination of Service occurs only upon an event that would be a Separation from Service within the meaning of Section 409A. If, at the time of Award Recipient's Separation from Service, (1) Award Recipient is a "specified employee" within the meaning of Code Section 409A, and (2) the Company makes a good faith determination that an amount payable on account of Award Recipient's Separation from Service constitutes deferred compensation (within the meaning of Code Section 409A), the payment of which is required to be delayed pursuant to the six (6)-month delay rule set forth in Code Section 409A to avoid taxes or penalties under Code Section 409A (the "Delay Period"), then the Company will not pay such amount on the otherwise scheduled payment date but will instead pay it in a lump sum on the first business day after the Delay Period (or upon Award Recipient's death, if earlier), without interest. Each installment of Stock Units that vest under this Agreement (if there is more than one installment) will be considered one of a series of separate payments for purposes of Code Section 409A.

#### 12. <u>Miscellaneous Provisions</u>.

- (a) <u>Applicable Law</u>. The validity, construction, interpretation and effect of this instrument will be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to the conflicts of law provisions thereof.
- (b) Notice. Any notice required by the terms of this Agreement shall be delivered or made electronically, over the Internet or otherwise (with request for assurance of recipient in a manner typical with respect to communications of that type), or given in writing. Any notice given in writing shall be deemed effective upon personal delivery or upon deposit with the United States Postal Service, by registered or certified mail, with postage and fees prepaid, and shall be addressed to the Company at its principal executive office and to the Award Recipient at the address that he or she has most recently provided to the Company. Any notice given electronically shall be deemed effective on the date of transmission.
- (c) <u>Headings</u>. The headings of sections and subsections are included solely for convenience of reference and shall not affect the meaning of the provisions of this Agreement.
- (d) <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

#### Exhibit 10.13

- (e) Amendments. The Board and the Committee shall have the power to alter or amend the terms of the grant of Stock Units as set forth herein from time to time, in any manner consistent with the provisions of the Plan, and any alteration or amendment of the terms of this grant of Stock Units by the Board or the Committee shall, upon adoption, become and be binding on all persons affected thereby without requirement for consent or other action with respect thereto by any such person. The Committee shall give notice to the Award Recipient of any such alteration or amendment as promptly as practicable after the adoption thereof. The foregoing shall not restrict the ability of the Award Recipient and the Board or the Committee by mutual written consent to alter or amend the terms of this grant of Stock Units in any manner which is consistent with the Plan.
- (f) <u>Binding Effect</u>. This Agreement shall be binding upon the heirs, executors, administrators and successors of the Award Recipient and the Company.
- (g) Entire Agreement. This Agreement and the Plan constitute the entire agreement between the Award Recipient and the Company regarding the grant of Stock Units and supersede all prior arrangements or understandings (whether oral or written and whether express or implied) with respect thereto.
  - 13. <u>Definitions</u>. For purposes of this Agreement, the following capitalized words shall have the meanings set forth below.
  - "Cause" shall mean the definition of "Cause" contained in the Change in Control and Severance Agreement.
- "Change in Control and Severance Agreement" shall mean the written change in control and severance agreement between the Award Recipient and the Company, as in effect as of the Grant Date.
  - "Good Reason" shall mean the definition of "Good Reason" contained in the Change in Control and Severance Agreement
  - "Separation from Service" shall have the meaning given such term in Code Section 409A.

(Remainder of page intentionally left blank)



December 4, 2019

Kevin Kenny

Offer Letter

Dear Kevin,

It gives me great pleasure to present this offer of employment with Orthofix Medical, Inc. (with its subsidiaries and affiliates, "Orthofix").

<u>Position:</u> The position we are offering you is that of President of Global Spine, reporting to Orthofix's President and Chief Executive Officer.

**Start Date:** Your start date will be on December 4, 2019.

Base Salary: Your base salary will be \$440,000 per year (the "Base Salary"), less applicable deductions and tax withholdings.

<u>Annual Bonus:</u> Subject to Orthofix policies and satisfaction of applicable performance criteria, you will be eligible to participate in the annual bonus program, with a target bonus opportunity of 70% of your Base Salary. Your 2019 annual bonus will be pro-rated based on your start date.

**Sign-On Equity Award:** As an inducement to and incentive for accepting this position, you will be eligible to receive a grant, effective as of your start date, under Orthofix's 2012 Long-Term Incentive Plan of (i) stock options to purchase shares of Orthofix common stock, valued at \$450,000 (based on the Black-Scholes value of Orthofix common stock on the grant date, subject to rounding to the nearest whole share) and (ii) restricted stock units with respect to shares of Orthofix common stock, valued at \$450,000 (based on the closing price of Orthofix common stock on the grant date, subject to rounding to the nearest whole share), in each case vesting in 25% increments on each of the first four anniversaries of your start date, subject to your continued service with Orthofix on each such vesting date. The sign-on equity awards are contingent upon and issued only upon approval by Orthofix's Board of Directors and will be subject to the terms and conditions of applicable award agreements, which will be made available to you shortly after approval of your awards by Orthofix's Board of Directors.

**Sign-On Short Term Cash Incentive Award:** As an inducement for accepting this position, you will receive two time-based cash incentive awards in total value of \$200,000. The first award of \$100,000, less applicable deductions and tax withholdings, will be payable in the first available payroll after your Start Date. The second award of \$100,000, less applicable

deductions and tax withholdings, will be payable in the first available payroll after 12 continuous months of service. These awards are subject to pro-rata clawback provisions should you voluntarily leave employment or you are terminated for cause within 12 months of receiving each award.

**Equity Incentives:** You will also be eligible to receive future, annual equity incentive awards. Any future equity incentive awards are contingent upon and issued only upon approval by Orthofix's Board of Directors (or Compensation Committee) and will be subject to the terms and conditions of applicable plan documents and award agreements. The incentive value for the 2020 annual incentive award is anticipated to be approximately \$800,000, but will be subject to Compensation Committee review and approval.

**Benefits:** Orthofix will offer you medical, dental, and vision insurance, effective the first of the month after your first 30 days of employment. You will also be eligible to participate in the Orthofix 401(k) retirement plan as of the first of the month after your first 30 days of employment. This plan currently provides an employer match of 100% for the first 2% contribution and 50% for the next 4% contribution. A more detailed explanation of these benefits and other benefits will be provided to you under separate cover. Orthofix defers to the provisions of its employee benefits plans, which plans shall govern to the extent of any conflict and which plans may be changed unilaterally by Orthofix.

Location and Residency: Your position will be based in Orthofix's Lewisville offices. As such, Orthofix will provide support in establishing residency in the Lewisville, Texas area and you will receive a one-time cash payment of \$175,000, less applicable deductions and tax withholdings, payable in the first available payroll after your Start Date, for you to apply in your discretion to the purchase of a new home in the Lewisville, Texas areas. This one-time cash payment of \$175,000 is subject to a full clawback should you voluntarily leave employment or you are terminated for cause within 24 months of the Start Date. Additionally, Orthofix will also provide reimbursement (upon submission of applicable supporting documentation) for a house-hunting trip with your spouse, for closing costs on the purchase of a home, for the move of household goods and two automobiles, and a temporary housing monthly stipend of \$3,000 (net) for temporary housing in the Lewisville, Texas area for up to six months. Relocation expenses will be grossed up for the value using the Company's standard gross-up formula for the expected tax liability of these expenses.

<u>Third-Party Confidentiality/Non-Compete Obligations:</u> Orthofix recognizes that, while you were employed with your prior employers, you may have been exposed to confidential, proprietary, and/or trade secret information ("Third-Party Confidential Information"). Moreover, Orthofix recognizes that you have a legal duty and may have a contractual duty not to use or disclose Third-Party Confidential Information outside of your employment with your former employers. Orthofix also recognizes that you may owe your former employers a contractual duty not to solicit certain customers ("Restricted Customers"). Orthofix has no intention of obtaining any Third-Party Confidential Information in any form. In fact, Orthofix's expectation is that you will abide by, and comply fully with, the terms of any agreements you may have with respect to such information. By signing below, you represent and warrant that you have complied, and will comply, with any such obligations, including, but not limited to, all confidentiality, non-

solicitation, non-competition, and post-employment disclosure obligations. You further represent and warrant that you have not misappropriated any Third-Party Confidential Information and, to the extent you may have access to such information, you will not disclose or use it for any purpose contrary to the terms of any agreements you may have with respect to such information, or to benefit Orthofix in any way.

Orthofix also wishes to ensure that you are not placed in a position which might require you to solicit Restricted Customers or cause the disclosure or use of Third-Party Confidential Information, either intentionally or inadvertently. For this reason, this offer is contingent upon the legal department's review of any agreements you may have with a current or former employer or business partner, and Orthofix reserves the right to rescind the offer if it determines, in its sole discretion, that you have continuing obligations to a current or former employer or business partner that could restrict or interfere with the responsibilities Orthofix anticipates you performing on its behalf. If you are ever involved in any job situation which could require you to solicit Restricted Customers or cause you to use or disclose any Third-Party Confidential Information, you agree to immediately notify Orthofix's Chief Legal Officer and advise Orthofix's Chief Legal Officer of your concerns. In the event it is determined that a risk of improper solicitation, disclosure, or use does exist, Orthofix will take appropriate measures.

Orthofix is also serious about protecting its own confidential, proprietary, and/or trade secret information. Accordingly, this offer of employment is contingent upon your execution of a confidentiality, non-competition, and inventions agreement (a "Restrictive Covenant Agreement").

**Testing and Screening:** This offer is contingent on the successful completion of a drug test and background screening. The drug screen must be completed within 96 hours of accepting this offer. If the drug screen is not completed by the designated date, we reserve the right to rescind the offer.

**Work Eligibility:** Federal law requires all employees to provide their employers with verification of identity and eligibility to work in the United States within the first three (3) days of employment. All employees are required to show one or more forms of identification as a means of verification. This offer of employment is contingent upon your return of the necessary documentation to Orthofix within three days of your first day of employment with a copy of the acceptable identification you choose to present.

**Employment-At-Will:** You understand and acknowledge that, if you become employed by Orthofix, you will be an "at-will" employee at all times during your employment. As an at-will employee, both Orthofix and you will have the right to terminate your employment at any time, with or without cause, and with or without notice. At-will employment also means that your job duties, title, compensation, and benefits, as well as the company personnel policies and other procedures, may be changed or terminated at the sole discretion of Orthofix at any time. Please note that, while this offer letter summarizes your anticipated terms and conditions of employment with Orthofix, they may change, and it is **not** an employment contract.

**Governing Law:** This offer letter shall be governed by and construed in accordance with the laws of the State of Texas, without regard to its principles of conflicts of laws.

<u>Other Agreements:</u> Under separate cover, you will receive a Change in Control and Severance Agreement, and an Indemnity Agreement (the "Other Agreements"). Kindly return one signed copy of this offer letter and each Other Agreement.

<u>Acceptance:</u> Your signature at the end of this offer letter constitutes an acceptance of this offer and confirms that no promises, representations, or agreements that are inconsistent with any of the terms of this offer letter have been made to or with you by anyone at Orthofix. You also acknowledge and agree that no modification of the terms and conditions set forth in this offer letter can be made without the written authorization of Orthofix's President and Chief Executive Officer or Orthofix's Compensation Committee.

This offer of employment will remain open until December 3, 2019.

Kevin, we look forward to working with you. Your experience, background and leadership will be a significant asset to Orthofix.

Sincerely,

Suzanne Armstrong

Vice President, Human Resources

Suganne armstrong

ACKNOWLEDGED, ACCEPTED, AND AGREED:

/s/ KEVIN KENNY 2019 Kevin Kenny Date December 4,

# ORTHOFIX MEDICAL INC.

# CHANGE IN CONTROL AND SEVERANCE AGREEMENT

This AGREEMENT (the "<u>Agreement</u>") is made and entered into as of December 4, 2019 (the "<u>Effective Date</u>"), by and between Orthofix Medical Inc., a Delaware corporation (together with its direct and indirect subsidiaries, the "<u>Company</u>"), and Kevin Kenny (the "<u>Executive</u>").

# **RECITALS**

WHEREAS, the Executive is expected to make significant contributions to the profitability, growth and financial strength of the Company;

WHEREAS, the Company believes that it is important to provide the Executive with severance benefits upon certain terminations of employment to provide the Executive with enhanced financial security and incentive and encouragement to remain with the Company;

WHEREAS, the Company recognizes that the possibility of a Change in Control (as hereinafter defined) and the uncertainty that it would cause could result in the departure or distraction of the Executive, to the detriment of the Company and its stockholders; and

WHEREAS, the Company desires to encourage the continued employment of the Executive by the Company and wants assurance that it shall have the continued dedication, loyalty and service of, and the availability of objective advice and counsel from, the Executive notwithstanding the possibility, threat or occurrence of a Change in Control.

NOW, THEREFORE, in consideration of the mutual covenants and promises contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

- 1. <u>Definitions</u>. As used in this Agreement, the following terms have the following meanings which are equally applicable to both the singular and plural forms of the terms defined:
- (a) "2012 LTIP" shall mean the Company's 2012 Long-Term Incentive Plan, as amended from time-to-time (including after the Effective Date).
  - (b) "Board" shall mean the Board of Directors of the Company.
- (c) "<u>Cause</u>" shall mean (i) willful and intentional commission by the Executive of one or more material acts of (A) fraud, misappropriation or embezzlement related to the business or property of the Company or (B) moral turpitude; (ii) conviction for, or guilty plea to, or plea of nolo contendere to, a felony; or (iii) fraud or willful misconduct committed by the Executive that caused or otherwise materially contributed to the requirement for an accounting restatement of the Company's financial statements due to noncompliance with any financial reporting requirement (other than a restatement due to a change in accounting rules). No act or omission shall be deemed

willful, intentional or material for purposes of this definition if taken or omitted to be taken by Executive in a good faith belief that such act or omission to act was in the best interests of the Company or if done at the express direction of the Board or the board of directors or principal executive officer of any acquirer of the Company.

- (d) "Change in Control" shall mean the occurrence of any of the following events:
- (i) the acquisition by any individual, entity or group (within the meaning of Section 13(d)(3) or 14(d)(2) of the Exchange Act) of beneficial ownership (within the meaning of Rule 13d-3 promulgated under the Exchange Act), in any individual transaction or series of related transactions, of 50% or more of either (A) the then outstanding shares of common stock of Parent (the "Outstanding Common Stock") or (B) the combined voting power of the then outstanding voting securities of Parent entitled to vote generally in the election of directors (the "Outstanding Voting Securities"); excluding, however, the following: (1) any acquisition directly from Parent, other than an acquisition by virtue of the exercise of a conversion privilege unless the security being so converted was itself acquired directly from Parent; (2) any acquisition by Parent; (3) any acquisition by any employee benefit plan (or related trust) sponsored or maintained by Parent or any entity controlled by Parent; or (4) any acquisition pursuant to a transaction which complies with clauses (A), (B) and (C) of subsection (iii) of this definition of Change in Control;
- (ii) a change in the composition of the Board such that the individuals who as of the Effective Date constitute the Board (the "Incumbent Board") cease for any reason to constitute at least a majority of the Board; provided, however, for purposes of this paragraph, that any individual who becomes a member of the Board subsequent to the Effective Date, whose appointment, election, or nomination for election by Parent's shareholders was approved by a vote of at least a majority of those individuals who are members of the Board and who were also members of the Incumbent Board (or deemed to be such pursuant to this proviso) shall be considered as though such individual were a member of the Incumbent Board; but provided further that any such individual whose initial assumption of office occurs as a result of either an actual or threatened election contest (as such terms are used in Rule 14a-11 of Regulation 14A promulgated under the Exchange Act) or other actual or threatened solicitation of proxies or consents by or on behalf of a Person other than the Board shall not be so considered as a member of the Incumbent Board;
- (iii) consummation of a reorganization, merger, consolidation or other business combination or the sale or other disposition of all or substantially all of the assets of Parent (including assets that are shares held by Parent in its subsidiaries) (any such transaction, a "Business Combination"); expressly excluding, however, any such Business Combination pursuant to which all of the following conditions are met: (A) all or substantially all of the Person(s) who are the beneficial owners of the Outstanding Common Stock and Outstanding Voting Securities, respectively, immediately prior to such Business Combination will beneficially own, directly or indirectly, more than 50% of, respectively, the outstanding shares of common stock, and the combined voting power of the outstanding voting securities entitled to vote generally

in the election of directors, as the case may be, of the entity resulting from such Business Combination (including, without limitation, an entity which as a result of such transaction owns Parent or all or substantially all of Parent's assets either directly or through one or more subsidiaries) in substantially the same proportions as their ownership, immediately prior to such Business Combination, of the Outstanding Common Stock and Outstanding Voting Securities, as the case may be, (B) no Person (other than Parent, any employee benefit plan (or related trust) of Parent or such entity resulting from such Business Combination) will beneficially own, directly or indirectly, 50% or more of, respectively, the outstanding shares of common stock of the entity resulting from such Business Combination or the combined voting power of the outstanding voting securities of such entity entitled to vote generally in the election of directors except to the extent that such ownership existed prior to the Business Combination, and (C) individuals who were members of the Incumbent Board will constitute at least a majority of the members of the board of directors of the entity resulting from such Business Combination;

- (iv) the approval by the shareholders of Parent of a complete liquidation or dissolution of Parent;
- (v) the Company shall sell or dispose of, in a single transaction or series of related transactions, business operations that generated two-thirds of the consolidated revenues of the Company (determined on the basis of Company's four most recently completed fiscal quarters for which reports have been filed under the Exchange Act) and such disposal shall not be exempted pursuant to clause (iii) of this definition of Change in Control;
- Parent files a report or proxy statement with the Securities and Exchange Commission (vi) pursuant to the Exchange Act disclosing in response to Form 8-K or Schedule 14A (or any successor schedule, form or report or item therein) that a change in control of Parent has or may have occurred or will or may occur in the future pursuant to any then-existing agreement or transaction; notwithstanding the foregoing, unless determined in a specific case by a majority vote of the Board, a "Change in Control" shall not be deemed to have occurred solely because: (A) an entity in which Parent directly or indirectly beneficially owns 50% or more of the voting securities, or any Parent-sponsored employee stock ownership plan, or any other employee plan of the Company, either files or becomes obligated to file a report or a proxy statement under or in response to Schedule 13D, Schedule 14D-1, Form 8-K or Schedule 14A (or any successor schedule, form or report or item therein) under the Exchange Act, disclosing beneficial ownership by form or report or item therein, disclosing beneficial ownership by it of shares of stock of Parent, or because Parent reports that a change in control of Parent has or may have occurred or will or may occur in the future by reason of such beneficial ownership or (B) any Company-sponsored employee stock ownership plan, or any other employee plan of the Company, either files or becomes obligated to file a report or a proxy statement under or in response to Schedule 13D. Schedule 14D-1. Form 8-K or Schedule 14A (or any successor schedule, form or report or item therein) under the Exchange Act, disclosing beneficial ownership by form or report or item therein, disclosing beneficial ownership by it of shares of stock of Parent, or because Parent reports that a change in control of Parent has or may have occurred or will or may occur in the future by reason of such beneficial ownership; or

(vii) any other transaction or series of related transactions occur that have substantially the effect of the transactions specified in any of the preceding clauses in this definition.

Notwithstanding this definition of "Change in Control," the Board, in its sole discretion, may determine that a Change in Control has occurred for purposes of this Agreement, even if the events giving rise to such Change in Control are not expressly described in the above definition.

- (e) "<u>CiC Date</u>" shall mean the date on which a Change in Control occurs.
- (f) "<u>CiC Period</u>" shall mean the twenty four (24)-month period commencing on the CiC Date; provided, however, if the Company terminates the Executive's employment with the Company prior to the CiC Date but on or after a Potential CiC Date, and it is reasonably demonstrated that the Executive's (i) employment was terminated at the request of an unaffiliated third party who has taken steps reasonably calculated to effect a Change in Control or (ii) termination of employment otherwise arose in connection with or in anticipation of the Change in Control, then the "<u>CiC Period</u>" shall mean the twenty four (24)-month period beginning on the date immediately prior to the date of the Executive's termination of employment with the Company.
- "CiC Period Good Reason" shall mean the occurrence of any of the following without the written consent of the Executive: (i) a requirement that the Executive work principally from a location that is more than thirty (30) miles from his or her current principal place of employment, (ii) any reduction in the Executive's Total Compensation, (iii) any material breach of this Agreement or any other material agreement with the Executive by the Company or any successor entity, or (iv) any diminution in the Executive's employment position, authority, duties, responsibilities or line of reporting structure, or the assignment to the Executive of any duties materially inconsistent with the Executive's position and title immediately prior to consummation of the Change in Control (including, for example, if the Executive was the Chief Financial Officer of the Company immediately prior to consummation of a Change in Control and is not the Chief Financial Officer of the Company immediately following consummation of the Change in Control, then a diminution in the Executive's responsibilities will have occurred), in each case excluding for this purpose an isolated, insubstantial and inadvertent action taken in good faith and which is promptly remedied by employer. The Executive shall only have CiC Period Good Reason if (A) the Executive has provided notice of termination to the Company of any of the foregoing conditions within ninety (90) days of the initial existence of the condition, (B) the Company does not cure such condition within thirty (30) days following receipt of such notice of termination, and (C) if such condition is not cured within such thirty (30) day period, the Executive actually terminates employment within sixty (60) days after the notice of termination. The Executive's mental or physical incapacity following the occurrence of an event described above in clauses (i), (ii), (iii) or (iv) shall not affect the Executive's ability to terminate employment for CiC Period Good Reason, and the Executive's death following delivery of a notice of termination for CiC Period Good Reason shall not affect the Executive's estate's entitlement to the severance benefits provided hereunder upon a termination of employment for CiC Period Good Reason.

- (h) "Compensation Committee" shall mean the Compensation Committee of the Board.
- (i) "<u>Disability</u>" as used in this Agreement shall have the meaning given that term by any disability insurance the Company carries at the time of termination that would apply to the Executive. Otherwise, the term "<u>Disability</u>" shall mean the inability of the Executive to perform each of the essential duties of the Executive's position by reason of a medically determinable physical or mental impairment which is potentially permanent in character or which can be expected to last for a continuous period of not less than twelve (12) months. Any dispute as to whether or not the Executive has a "<u>Disability</u>" for purposes of this Agreement shall be resolved by a physician reasonably satisfactory to the Board and the Executive (or his legal representative, if applicable). If the Board and the Executive (or his legal representative, if applicable) are unable to agree on a physician, then each shall select one physician and those two physicians shall pick a third physician and the determination of such third physician shall be binding on the parties.
  - (j) "Exchange Act" shall mean the Securities Exchange Act of 1934, as amended.
- (k) "<u>Good Reason</u>" shall mean: (i) during a CiC Period, CiC Period Good Reason; and (ii) during a Non-CiC Period, Non-CiC Period Good Reason.
  - (l) "Non-CiC Period" shall mean any period of time that is not a CiC Period.
- (m) "Non-CiC Period Good Reason" shall mean the occurrence of any of the following without the written consent of the Executive: (i) a requirement that the Executive work principally from a location that is more than fifty (50) miles from his or her current principal place of employment, (ii) any 10% or greater reduction in the sum of the Executive's base salary and target bonus opportunity, (iii) any 20% or greater reduction in the grant date fair value of equity-based compensation annually awarded to the Executive (other than reductions that are made substantially *pro rata* to other executives of the Company), or (iv) any material breach of this Agreement or any other material agreement with the Executive by the Company or any successor entity. The Executive shall only have Non-CiC Period Good Reason if (A) the Executive has provided notice of termination to the Company of any of the foregoing conditions within ninety (90) days of the initial existence of the condition, (B) the Company does not cure such condition within thirty (30) days following receipt of such notice of termination, and (C) if such condition is not cured within such thirty (30) day period, the Executive actually terminates employment within sixty (60) days after the notice of termination. The Executive's mental or physical incapacity following the occurrence of an event described above in clauses (i), (ii), (iii), or (iv) shall not affect the Executive's ability to terminate employment for Non-CiC Period Good Reason, and the Executive's estate's entitlement to the severance benefits provided hereunder upon a termination of employment for Non-CiC Period Good Reason.

- (n) "Parent" shall mean Orthofix Medical Inc. and its successors.
- (o) "Person" shall include individuals or entities such as corporations, partnerships, companies, firms, business organizations or enterprises, and governmental or quasi-governmental bodies.
- (p) "Potential CiC Date" shall mean the earliest to occur of: (i) the date on which Parent executes an agreement or letter of intent, the consummation of the transactions described in which would result in the occurrence of a Change in Control or (ii) the date on which the Board approves a transaction or series of transactions, the consummation of which would result in a Change in Control; provided, however, that such date shall become null and void when, in the opinion of the Board, Parent or the respective third party has abandoned or terminated such transaction or series of transactions without consummation.
- (q) "Qualified Retirement" shall mean a retirement from Service by the Executive in which, at the time of such retirement, the sum of the Executive's age and aggregate 12-month completed periods of Service (whether or not such completed 12-month periods are consecutive), in each case without giving credit for any partial years, equals or exceeds 75.
  - (r) "Service" shall have the meaning ascribed to such term in the 2012 LTIP.
- (s) "<u>Total Compensation</u>" shall mean aggregate of base salary, target bonus opportunity, employee benefits (retirement plan, welfare plans, and fringe benefits), and grant date fair value of equity-based compensation, but excluding for the avoidance of doubt any reductions caused by the failure to achieve performance targets) taken as a whole.
- 2. <u>Term of Agreement</u>. The term of this Agreement (the "<u>Term</u>") shall commence on the Effective Date and shall continue in effect until the earlier of (i) the parties' satisfaction of their respective obligations under this Agreement or (ii) the execution of a written agreement between the Company and the Executive terminating this Agreement.
- 3. Certain Terminations of Employment During a Non-CiC Period. If, during a Non-CiC Period, the Executive's employment with the Company terminates as a result of death, the Executive terminates his or her employment as a result of Disability or for Non-CiC Period Good Reason, or the Company terminates the Executive's employment without Cause, the Company shall pay or provide to the Executive (i) the Executive's annual base salary due through the Executive's date of termination, (ii) any amounts or benefits owing to the Executive as of the Executive's date of termination under the then applicable benefit plans of the Company, at the time such amounts or benefits are due (including any accrued vacation payable), (iii) any amounts owing to the Executive for reimbursement of expenses properly incurred by the Executive prior to the Executive's date of termination, which shall be subject to and paid in accordance with the Company's expense reimbursement policy, (iv) if, for the calendar year prior to the Executive's termination, Executive has achieved performance goals such that Executive has earned a bonus under any annual cash incentive program of the Company (an "Annual Cash Incentive Program") and such Annual Cash Incentive Program bonus with respect to such prior calendar year has not

vet been determined and/or paid, the amount of such bonus, payable at the same time as payments are made to other participants under such Annual Cash Incentive Program, and (v) a pro rata amount of any Annual Cash Incentive Program bonus, if any, with respect to the vear of termination (based on the number of days the Executive was employed by the Company during such year of termination) based on the achievement of applicable performance goals for such year, payable during the following year at the same time as payments are made to other participants under such Annual Cash Incentive Program (collectively, the "Accrued Amounts"). Subject to the Executive's compliance with the restrictive covenants in Section 9 hereof and the Executive's execution and non-revocation of the release described in Section 5 hereof, the Company shall also pay to the Executive, in a cash lump sum within ten (10) days following the Release Effective Date (as defined below), an amount equal to one (1.0) times the sum of (A) the Executive's annual base salary in effect as of the Executive's date of termination (without giving effect to any reduction of base salary that has occurred within the 12month period preceding such date of termination), (B) the Executive's current annual target cash bonus amount under the Annual Cash Incentive Program (without giving effect to any reduction of such annual target amount that has occurred within the 12-month period preceding such date of termination and (C) \$12,500 to be used by the Executive for outplacement services (such sum, the "Severance Amount"). Notwithstanding the foregoing, if the Severance Amount could be paid to the Executive during the subsequent taxable year of the Executive rather than the Executive's taxable year in which the Executive's date of termination occurs based on when the Executive executes and delivers the release described in Section 5 hereof to the Company, then, to the extent that the Severance Amount constitutes nonqualified deferred compensation subject to Section 409A of Internal Revenue Code of 1986, as amended (the "Code"), the Severance Amount shall not be paid earlier than the first business day of the later of such taxable years. In addition, subject to the Executive's compliance with the restrictive covenants in Section 9 hereof and the Executive's execution and nonrevocation of the release described in Section 5 hereof, the Company shall reimburse the Executive on a monthly basis for the Executive's monthly premium payments for health care coverage under the Consolidated Omnibus Budget Reconciliation Act of 1985 ("COBRA") for the Executive and the Executive's eligible dependents for a period of twelve (12) months, provided that the Executive and, if applicable, the Executive's eligible dependents are currently enrolled in the applicable plan(s) of the Company at the time of the Executive's termination and that the Executive timely elects to continue the Executive's coverage under COBRA; provided, however, that the Company's obligation to reimburse the Executive for such premiums shall cease on the date the Executive is no longer eligible to receive COBRA coverage. The Executive must advise the Company as soon as the Executive becomes eligible for health care coverage from a third party (e.g., spouse's employer, the Executive's subsequent employer, or any other party with a relationship with the Executive).

4. <u>Termination of Employment During a CiC Period</u>. If, during a CiC Period, the Executive's employment with the Company terminates as a result of death, the Executive terminates his or her employment as a result of Disability or for CiC Period Good Reason, or the Company terminates the Executive's employment without Cause, the Company shall: (A) pay or provide to the Executive the Accrued Amounts, and (B) subject to the Executive's compliance with the restrictive covenants in Section 9 hereof and the Executive's execution and non-

revocation of the release described in Section 5 hereof, (i) pay to the Executive, in a cash lump sum within ten (10) days following the Release Effective Date, an amount equal to one and one-half (1.5) times the sum of (A) the Executive's annual base salary in effect as of the Executive's date of termination (without giving effect to any reduction of base salary that has occurred within the 12-month period preceding such date of termination), (B) the Executive's current annual target cash bonus amount under the Annual Cash Incentive Program (without giving effect to any reduction of such annual target amount that has occurred within the 12-month period preceding such date of termination and (C) \$12,500 to be used by the Executive for outplacement services (such sum, the "CiC Severance Amount"); provided, however, that if the CiC Severance Amount could be paid to the Executive during the subsequent taxable year of the Executive rather than the Executive's taxable year in which the Executive's date of termination occurs based on when the Executive executes and delivers the release described in Section 5 hereof to the Company, then, to the extent that the CiC Severance Amount constitutes nonqualified deferred compensation subject to Section 409A of the Code, the CiC Severance Amount shall not be paid earlier than the first business day of the later of such taxable years; and (ii) reimburse the Executive on a monthly basis for the Executive's monthly premium payments for health care coverage under COBRA for the Executive and the Executive's eligible dependents for a period of twelve (12) months, provided that the Executive and, if applicable, the Executive's eligible dependents are currently enrolled in the applicable plan(s) of the Company at the time of the Executive's termination and that the Executive timely elects to continue the Executive's coverage under COBRA; provided, however, that the Company's obligation to reimburse the Executive for such premiums shall cease on the date the Executive is no longer eligible to receive COBRA coverage. The Executive must advise the Company as soon as the Executive becomes eligible for health care coverage from a third party (e.g., spouse's employer, the Executive's subsequent employer, or any other party with a relationship with the Executive).

5. Payments Contingent Upon Release Agreement. As a condition to receiving the Severance Amount or the CiC Severance Amount, as applicable, and the reimbursement of COBRA premiums pursuant to Sections 3 or 4 hereof, the Executive will execute a release of claims substantially in the form of the release attached hereto as Exhibit A (the "Release"). Within ten (10) business days of the Executive's date of termination, the Company shall deliver to the Executive the Release for the Executive to execute. The Executive will forfeit all rights to receive the Severance Amount or the CiC Severance Amount, as applicable, and the reimbursement of COBRA premiums pursuant to Sections 3 or 4 hereof unless, within forty-five (45) days of delivery of the Release by the Company to the Executive, the Executive executes and delivers the Release to the Company and such Release has become irrevocable by virtue of the expiration of the revocation period specified therein without the Release having been revoked (the first such date, the "Release Effective Date"). The Company's obligation to pay the Severance Amount or the CiC Severance Amount, as applicable, or to reimburse COBRA premiums pursuant to Sections 3 or 4 hereof, is subject to the occurrence of the Release Effective Date, and if the Release Effective Date does not occur, then the Company shall have no obligation to make such payments or reimbursements. Any reimbursements of COBRA premiums pursuant to Sections 3 or 4 hereof that would otherwise have become due prior to the Release Effective Date shall be paid in a cash lump sum within ten (10) days following the Release Effective Date; provided, that if any

reimbursements of COBRA premiums pursuant to Sections 3 or 4 hereof could be paid to the Executive during a different taxable year of the Executive than the Executive's taxable year in which the Executive's date of termination occurs based on when the Executive executes and delivers the Release to the Company, then, to the extent that the reimbursements constitute nonqualified deferred compensation subject to Section 409A of the Code, the reimbursement amounts shall not be paid earlier than the first business day of the later of such taxable years. In the event the Executive breaches one or more of the restrictive covenants set forth in Section 9 hereof, the Executive shall forfeit the Executive's right to receive the Severance Amount or the CiC Severance Amount, as applicable, and the reimbursement of COBRA premiums pursuant to Sections 3 or 4 hereof, and, to the extent such amounts have been paid to the Executive, shall repay to the Company the after-tax amount of any such previously paid amounts.

- 6. <u>Time-Based Stock Options and Time-Based Restricted Stock Vesting and Exercisability</u>. The provisions set forth in Sections 6(a), (b), (c) and (e) below shall apply with respect to (a) all time-based vesting stock options of the Company ("<u>Time-Based Stock Options</u>") granted to the Executive before or after the date of this Agreement, and (b) all time-based vesting shares of restricted stock of the Company ("<u>Time-Based Restricted Stock</u>" or "<u>TBRS</u>") granted to the Executive before or after the date of this Agreement. The provisions set forth in Section 6(d) below only shall apply with respect to all Time-Based Stock Options and Time-Based Restricted Stock granted during or after the 2016 calendar year. Such provisions shall supersede and override any conflicting provisions set forth in applicable award agreements of the Company governing applicable grants, and shall be incorporated by reference into the terms of such award agreements.
- (a) Termination with or without Cause; Certain Voluntary Terminations. If, prior to vesting, the Executive's Service is terminated for any reason other than (i) death, (ii) Disability, (iii) a Qualified Retirement occurring no less than six (6) months after the grant date of the Option (the "Grant Date") or (iv) a circumstance providing for accelerated vesting pursuant Section 6(d) hereof, the unvested portion of the applicable Option or TBRS shall be cancelled and revert back to the Company as of the date of such termination of Service, and the Executive shall have no further right or interest therein unless the Compensation Committee in its sole discretion shall determine otherwise. In such event, the Executive shall have the right, subject to the other terms and conditions set forth in this Agreement and the applicable plan, to exercise such Option, to the extent it has vested as of the date of such termination of Service, at any time within three (3) months after the date of such termination of Service, subject to the earlier expiration of the Option on the ten (10)-year anniversary of grant or such other term as is provided in the applicable equity award agreement otherwise governing such grant (the "Expiration Date"). To the extent the vested portion of the Option is not exercised within such three (3)-month period, such Option shall be cancelled and revert back to the Company, and the Executive or any permitted transferee pursuant to the terms of the applicable award agreement shall have no further right or interest therein.
- (b) <u>Termination of Service for Death or Disability</u>. If the Executive's Service terminates by reason of death or Disability, as of the date of such termination of Service (i) the unvested portion of any Option shall automatically vest and become immediately exercisable in

full and (ii) any TBRS shall automatically vest in full. The full portion of any unexercised Option shall remain exercisable by the Executive (or any person entitled to do so) at any time within eighteen (18) months after the date of such termination of Service, subject to the earlier expiration of such Option on the Expiration Date. To the extent such Option is not exercised within such period, such Option shall be cancelled and revert back to the Company, and the Executive or any permitted transferee pursuant to the terms of the applicable award agreement, as applicable, shall have no further right or interest therein.

- Termination of Service for Certain Qualified Retirements. If the Executive's Service terminates by reason of a Qualified Retirement occurring no less than six (6) months after the Grant Date but prior to the second anniversary of the Grant Date, any Option shall automatically vest and become immediately exercisable, and any TBRS shall be considered vested, as of the date of such termination of Service with respect to the aggregate number of shares of common stock of Parent as to which such Option or TBRS, as applicable, would have been vested as of such second anniversary of the Grant Date. If the Executive's Service terminates by reason of a Qualified Retirement after the second anniversary of the Grant Date but before the third anniversary of the Grant Date, any Option shall automatically vest and become immediately exercisable, and any TBRS shall be considered vested, as of the date of such termination of Service with respect to the aggregate number of shares of common stock of Parent as to which such Option or TBRS, as applicable, would have been vested as of such third anniversary of the Grant Date. If the Executive's Service is terminated by reason of a Qualified Retirement after the third anniversary of the Grant Date but before the fourth anniversary of the Grant Date, any Option shall automatically vest and become immediately exercisable, and any TBRS shall be considered vested, in full as of the date of such termination of Service. In each of the circumstances described in the preceding three sentences, the applicable Option shall remain exercisable by the Executive (or any person entitled to do so) at any time within eighteen (18) months after the date of such termination of Service, subject to the earlier expiration of the Option on the Expiration Date. To the extent such Option is not exercised within such eighteen (18)-month period, the Option shall be cancelled and revert back to the Company and the Executive or any permitted transferee pursuant to the terms of the applicable award agreement, as applicable, shall have no further right or interest therein.
- (d) <u>Certain Additional Change in Control Circumstances</u>. In the event that any Option is assumed or continued, or substituted for new common stock options or another equity-based award of a successor entity, or parent or subsidiary thereof (with appropriate adjustments as to the number of shares and option exercise prices), or any unvested portion of the TBRS is assumed or continued, or substituted for new restricted common stock or another equity-based award of a successor entity, or parent or subsidiary thereof (with appropriate adjustments as to the number of shares), in each case upon the consummation of any Change in Control, and the employment of the Executive with the Company is terminated by the Company without Cause or by the Executive for CiC Period Good Reason, in each case during a CiC Period, (i) such Option shall be fully vested and may be exercised in full, to the extent applicable, beginning on the date of such termination and for the twenty-four (24)-month period immediately following such termination (subject to the earlier expiration of the Option on the Expiration Date) or for such

longer period as the Compensation Committee shall determine and (ii) the unvested portion of such TBRS shall be fully vested. (Nothing in the preceding sentence shall limit or alter the Executive's rights under Section 6(c) hereof in the event that the Executive instead terminates his or her Service by reason of a Qualified Termination.) In the event that a Change in Control occurs in which outstanding Options and/or shares of TBRS are not being assumed, continued or substituted (as contemplated by the preceding sentence), any Option and the unvested portion of any TBRS shall be treated in accordance with the default rules applicable under Section 17.3 of the 2012 LTIP (or if made pursuant to a successor long-term incentive plan or inducement plan, the default rules contained in such plan).

- (e) <u>Definition of Qualified Retirement</u>. The term Qualified Retirement as used in any award agreement with respect to Options or TBRS shall, notwithstanding any definition of such phrase in an award agreement, be defined as set forth in this Agreement.
- (f) <u>Survival</u>. All of the provisions in this Section 6 shall survive any expiration or termination of this Agreement for any reason (unless such termination is as a result of a future novation of such provisions entered into by each of the parties).
- 7. Section 280G. In the event that any of the severance payments and other benefits provided by this Agreement or otherwise payable to Executive (a) constitute "parachute payments" within the meaning of Section 280G of the Code, and (b) but for this Section 7, would be subject to the excise tax imposed by Section 4999 of the Code ("Excise Tax"), then Executive's severance payments and benefits under this Agreement or otherwise shall be payable either in full or in such lesser amount which would result in no portion of such severance payments or benefits being subject to the Excise Tax, whichever of the foregoing amounts, taking into account the applicable federal, state and local income and employment taxes and the Excise Tax, results in the receipt by Executive, on an after-tax basis, of the greatest amount of severance payments and benefits under this Agreement or otherwise, notwithstanding that all or some portion of such severance payments or benefits may be taxable under Section 4999 of the Code. Any reduction in the severance payments and benefits required by this Section 7 shall be made in the following order: (i) reduction of cash payments; (ii) reduction of accelerated vesting of equity awards other than stock options; (iii) reduction of accelerated vesting of stock options; and (iv) reduction of other benefits paid or provided to Executive. The calculations and establishment of assumptions in this Section 7 will be performed by a professional tax firm engaged by the Company as of the day prior to the CiC Date. If the tax firm so engaged by the Company is serving as accountant or auditor for the acquiring company, the Company shall appoint a nationally recognized tax firm to make the determinations required by this Section 7. The Company shall bear all expenses with respect to the determinations by such firm required to be made by this Section 7. The Company and Executive shall furnish such tax firm such information and documents as the tax firm may reasonably request in order to make its required determination. The tax firm will provide its calculations, together with detailed supporting documentation, to the Company and Executive as soon as practicable following its engagement. Any good faith determinations of the tax firm made hereunder shall be final, binding and conclusive upon the Company and Executive. However, the Executive shall have the final authority to make any good faith determination(s) associated with

the assumptions used by the tax firm in providing its calculations, and such good faith determination by the Executive shall be binding on the Company. As a result of the uncertainty in the application of Sections 409A, 280G or 4999 of the Code at the time of the initial determination by the professional tax firm described in this Section 7, it is possible that the Internal Revenue Service (the "IRS") or other agency will claim that an Excise Tax greater than that amount, if any, determined by such professional firm for the purposes of this Section 7 is due (the "Additional Excise Tax"). Executive shall notify the Company in writing of any claim by the IRS or other agency that, if successful, would require payment of Additional Excise Tax. Executive and the Company shall each reasonably cooperate with the other in connection with any administrative or judicial proceedings concerning the existence or amount of liability for Excise Tax with respect to payments made or due to Executive. The Company shall pay all reasonable fees, expenses and penalties of Executive relating to a claim by the IRS or other agency. In the event it is finally determined that a further reduction would have been required under this Section 7 to place Executive in a better after-tax position, Executive shall repay the Company such amount within 30 days thereof in order to effect such result.

# 8. Section 409A.

- (a) For purposes of Section 409A of the Code ("Section 409A") (i) each "payment" (as defined by Section 409A) made under this Agreement shall be considered a "separate payment," and (ii) payments shall be deemed exempt from the definition of deferred compensation under Section 409A to the fullest extent possible under (x) the "short-term deferral" exemption of Treasury Regulation § 1.409A-1(b)(4), and (y) with respect to amounts paid as separation pay (as defined under Treasury Regulation § 1.409A-1(m)) no later than the second calendar year following the calendar year containing the Executive's "separation from service" (as defined for purposes of Section 409A), the "two years/two-times" separation pay exemption of Treasury Regulation § 1.409A-1(b) (9)(iii), which exemptions are hereby incorporated by reference.
- (b) Any payments otherwise payable under this Agreement shall not commence until the Executive has a "separation from service" (as defined in Section 409A).
- (c) If the Executive is a "specified employee" as defined in Section 409A (and as applied according to procedures of the Company and its affiliates) as of the Executive's separation from service, to the extent any payment under this Agreement constitutes deferred compensation (after taking into account any applicable exemptions from Section 409A) that is payable upon a separation from service, and to the extent required in order to avoid the imposition of an excise tax under Section 409A, no payments due under this Agreement may be made until the earlier of: (1) the date of the Executive's death and (2) the first day of the seventh month following the Executive's separation from service, provided, however, that any payments delayed during this six-month period shall be paid in the aggregate in a lump sum on the first day of the seventh month following the Executive's separation from service (or upon the date of the Executive's death, if earlier).

- (d) Any expense reimbursements or in kind benefits under this Agreement that constitute deferred compensation within the meaning of Section 409A shall be made or provided in accordance with the requirements of Section 409A, including, without limitation, that: (i) the expenses eligible for reimbursement or the amount of in-kind benefits provided in one taxable year shall not affect the expenses eligible for reimbursement or the amount of in-kind benefits provided in any other taxable year; (ii) the reimbursement of an eligible expense shall be made no later than the end of the year after the year in which such expense was incurred; and (iii) the right to reimbursement or in-kind benefits shall not be subject to liquidation or exchange for another benefit.
- (e) If this Agreement fails to meet the requirements of Section 409A, neither the Company nor any of its affiliates shall have any liability for any tax, penalty or interest imposed on the Executive by Section 409A, and the Executive shall have no recourse against the Company or any of its affiliates for payment of any such tax, penalty, or interest imposed by Section 409A.

# 9. Restrictive Covenants.

- (a) <u>Non-Disparagement</u>. The Executive agrees that the Company's reputation and goodwill in the marketplace is of utmost importance and value to the Company. The Executive further agrees that during and after the term of the Executive's employment with the Company, the Executive will not make, publish or cause to be published any public or private statement or comments disparaging or defaming the Company, its subsidiaries or affiliates, or any of their respective stockholders, partners, members, directors, managers, officers and employees. The Executive acknowledges and agrees that this prohibition extends to statements, written or verbal, made to anyone, including but not limited to, the news media, competitors, vendors, and employees (past and present). The Executive further understands and agrees that this Section 9(a) is a material provision of this Agreement and that any breach of this Section 9(a) shall be a material breach of this Agreement, and that the Company would be irreparably harmed by violation of this provision. This prohibition does not preclude the Executive from providing truthful testimony if compelled by law.
- (b) <u>Cooperation</u>. The Executive agrees that after the Executive's date of termination, the Executive shall make the Executive available at reasonable times, intervals and places for interviews, consultations, internal investigations and/or testimony during which the Executive shall provide to the Company, or its designated attorneys or agents, any and all information known to the Executive regarding or relating to the Company or the Executive's activities on behalf of the Company pertaining to the subject matter on which the Executive's cooperation is sought. The Executive agrees to remain involved for so long as any such matters shall be pending.

# (c) <u>Non-Disclosure</u>.

(i) During the course of the Executive's employment with the Company, before and after the execution of this Agreement, and as consideration for the restrictive

covenants entered into by the Executive herein, the Executive has received and will continue to receive some or all of the Company's various Trade Secrets (as defined under applicable law) and confidential or proprietary information, which includes the following whether in physical or electronic form: (1) data and compilations of data related to. Business Opportunities (as defined below). (2) computer software, hardware, network and internet technology utilized, modified or enhanced by the Company or by the Executive in furtherance of the Executive's duties with the Company: (3) compilations of data concerning Company products, services. customers, and end users including but not limited to compilations concerning projected sales, new project timelines, inventory reports, sales, and cost and expense reports; (4) compilations of information about the Company's employees and independent contracting consultants; (5) the Company's financial information, including, without limitation, amounts charged to customers and amounts charged to the Company by its vendors, suppliers, and service providers: (6) proposals submitted to the Company's customers. potential customers, wholesalers, distributors, vendors, suppliers and service providers; (7) the Company's marketing strategies and compilations of marketing data; (8) compilations of data or information concerning, and communications and agreements with, vendors, suppliers and licensors to the Company and other sources of technology, products, services or components used in the Company's business; (9) the Company's research and development records and data; and (10) any summary, extract or analysis of such information together with information that has been received or disclosed to the Company by any third party as to which the Company has an obligation to treat as confidential (collectively, "Confidential Information"). "Business Opportunities" shall mean all ideas, concepts or information received or developed (in whatever form) by the Executive concerning any business, transaction or potential transaction that constitutes or may constitute an opportunity for the Company to earn a fee or income, specifically including those relationships that were initiated, nourished or developed at the Company's expense. Confidential Information does not include data or information: (1) which has been voluntarily disclosed to the public by the Company, except where such public disclosure has been made by the Executive without authorization from the Company; (2) which has been independently developed and disclosed by others; or (3) which has otherwise entered the public domain through lawful means.

(ii) All Confidential Information, Trade Secrets, and all physical and electronic embodiments thereof are confidential and are and will remain the sole and exclusive property of the Company. During and after the term of the Executive's employment with the Company, the Executive agrees that the Executive shall protect any such Confidential Information and Trade Secrets and shall not, except in connection with the performance of the Executive's remaining duties for the Company, use, disclose or otherwise copy, reproduce, distribute or otherwise disseminate any such Confidential Information or Trade Secrets, or any physical or electronic embodiments thereof, to any third party; provided, however, that the Executive may make disclosures required by a valid order or subpoena issued by a court or administrative agency of competent jurisdiction, in which event the Executive will promptly notify the Company of such order or subpoena to provide the Company an opportunity to protect its interests. Without limiting the generality of the foregoing, the Executive agrees that after the Executive's termination of employment with the Company, the Executive shall not disclose to any third party any transaction or potential transaction that was under active consideration by the Company on or during the six

(6) month period prior to the Executive's date of termination from the Company. The Executive further agrees that if the Executive is ever subpoenaed or otherwise required by law to provide any statement or other assistance to a party to a dispute or litigation with the Company, other than the Company, then the Executive shall provide written notice of the circumstances requiring such statement or other assistance, including where applicable a copy of the subpoena or other legal writ, in such a manner and at such a time that allows the Company to timely respond. Nothing herein shall prevent the Executive from cooperating with co-defendants in litigation or with inquiry in a government investigation without a need to obtain prior consent or approval from the Company; provided, however, the Executive shall provide prompt notice of any voluntary giving of oral or written statements to such parties, and provide to the Company a copy of any written statement so given or a summary of any oral statement provided.

(iii) Upon request by the Company and, in any event, upon termination of the Executive's employment with the Company for any reason, the Executive will promptly deliver to the Company (within twenty-four (24) hours) all property belonging to the Company, including but without limitation, all Confidential Information, Trade Secrets and all electronic and physical embodiments thereof, all Company files, customer lists, management reports, memoranda, research, Company forms, financial data and reports and other documents (including but not limited to all such data and documents in electronic form) supplied to or created by the Executive in connection with the Executive's employment with the Company (including all copies of the foregoing) in the Executive's possession or control, and all of the Company's equipment and other materials in the Executive's possession or control. The Executive agrees to allow the Company, at its request, to verify return of Company property and documents and information and/or permanent deletion of the same, through inspection of personal computers, personal storage media, third party websites, third party email systems, personal digital assistant devices, cell phones and/or social networking sites on which Company information was stored during the Executive's employment with the Company.

(iv) Nothing contained herein shall be in derogation or a limitation of the rights of the Company to enforce its rights or the Executive's duties under the applicable law relating to Trade Secrets.

(v) Notwithstanding anything to the contrary contain herein, the parties hereto acknowledge that pursuant to 18 USC § 1833(b), the Executive may not be held liable under any criminal or civil federal or state trade secret law for disclosure of a trade secret: (i) made in confidence to a government official, either directly or indirectly, or to an attorney, solely for the purpose of reporting or investigating a suspected violation of law or (ii) in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal. Additionally, the parties hereto acknowledge that if the Executive sues the Company for retaliation based on the reporting of a suspected violation of law, the Executive may disclose a trade secret to the Executive's attorney and use the trade secret information in the court proceeding, so long as any document containing the trade secret is filed under seal and the Executive does not disclose the trade secret except pursuant to court order.

# (d) Innovations.

- (i) The Executive hereby assigns, transfers and conveys to Orthofix Inc. and its successors and assigns any and all inventions, processes, procedures, systems, discoveries, designs, configurations, technology, works of authorship, trade secrets and improvements (whether or not they are made, conceived or reduced to practice during working hours or using the Company's data or facilities) (collectively, "Innovations") which the Executive makes, conceives, reduces to practice or otherwise acquires during any period of his/her employment by the Company (either solely or jointly with others), and which are related to the Company's present or planned business, the Company's services or products, and any and all patents, copyrights, trademarks, trade names and applications therefor, in the United States and elsewhere, relating thereto. The Innovations shall be the sole property of Orthofix Inc. and shall at all times be held by the Executive in a fiduciary capacity for the sole benefit of Orthofix Inc.
- (ii) All such Innovations that consist of works of authorship capable of protection under copyright laws shall be prepared by the Executive as works made for hire, with the understanding that Orthofix Inc. shall own all of the exclusive rights to such works of authorship under the United States copyright law and all international copyright conventions and foreign laws. The foregoing notwithstanding, to the extent that any such Innovation is not deemed a work made for hire, the Executive hereby assigns to Orthofix Inc. such Innovation and any and all patents, copyrights, trademarks, trade names and applications therefor, in the United States and elsewhere, relating thereto.
- (iii) The Executive shall maintain adequate and current written records of all such Innovations, which shall be available to and remain the sole property of Orthofix Inc. at all times. The Executive shall promptly disclose to the Company all such Innovations and shall assist the Company in obtaining and enforcing for its own benefit patents and copyright registrations on and in respect of such Innovations in all countries in all ways that the Company may request, to secure and enjoy the full benefits and advantages of such Innovations. The Executive understands that his/her obligations under this section shall continue after the termination of the Executive's employment by the Company.
- (e) Non-Solicitation. The Executive agrees that during the course of the Executive's employment with the Company and for a period of twelve (12) months following the termination of the Executive's employment with the Company for any reason, with or without Cause, whether upon the initiative of either the Executive or the Company, the Executive will not, on behalf of the Executive or any other individual, corporation, partnership, limited liability company, association, trust or any other entity or organization (including a government or political subdivision or an agency or instrumentality thereof), directly or by assisting others, solicit, induce, persuade or encourage, or attempt to solicit, induce, persuade or encourage, any individual employed by the Company, with whom the Executive has worked, to terminate such employee's position with the Company, whether or not such employee is a full-time or temporary employee of the Company and whether or not such employment is pursuant to a written agreement, for a determined period, or at will. The provisions of this Section 9(e) shall only apply to the Executive's

solicitation or attempted solicitation of those individuals employed by the Company at the time of solicitation or attempted solicitation.

- (f) Non-Competition. Without the prior written consent of the Board (which may be withheld in the Board's sole discretion), so long as the Executive is an employee of the Company and for a period of twelve (12) months thereafter, the Executive agrees that the Executive shall not anywhere in the Prohibited Area, for the Executive's own account or the benefit of any other, engage or participate in or assist or otherwise be connected with a Competing Business. For the avoidance of doubt, the Executive understands that this Section 9(f) prohibits the Executive from acting for himself or as an officer, employee, manager, operator, principal, owner, partner, shareholder, advisor, consultant of, or lender to, any individual or other Person that is engaged or participates in or carries out a Competing Business or is actively planning or preparing to enter into a Competing Business. The parties agree that such prohibition shall not apply to the Executive's passive ownership of not more than 5% of a publicly-traded company. For purposes of the foregoing, (i) "Competing Business" shall mean any business or activity that (i) competes with the Company and involves (ii) (A) the same or substantially similar types of products or services (individually or collectively) manufactured, marketed or sold by the Company after the Effective Date or (B) products or services so similar in nature to that of the Company's (or that the Company will soon thereafter offer) that they would be reasonably likely to displace substantial business opportunities or customers of the Company, and (ii) "Prohibited Area" shall mean North America, South America and Europe, which Prohibited Area the parties have agreed to as a result of the fact that those are the geographic areas in which the Company conducts a preponderance of its business and in which the Executive provides substantive services to the benefit of the Company.
- (g) Acknowledgements. The Executive acknowledges that the Company is in the business of providing reconstructive, regenerative and trauma-related products used in various orthopedic and spine procedures worldwide and that the Company makes substantial investments and has established substantial goodwill associated with its business, supplier relationships and marketing programs throughout the United States. The Executive therefore acknowledges and agrees that it is fair and reasonable for the Company to take steps to protect its Confidential Information, Trade Secrets, goodwill, business relationships, employees, economic advantages, and/or other legitimate business interests from the risk of misappropriation of or harm to its Confidential Information, Trade Secrets, goodwill, business relationships, employees, economic advantages, and/or other legitimate business interests. The Executive acknowledges that any limitations as to time and scope of activity to be restrained are reasonable and do not impose a greater restraint than is necessary to protect Company's Confidential Information, Trade Secrets, good will, business relationships, employees, economic advantages, and/or other legitimate business interests, and will not prevent the Executive from earning a livelihood.
- (h) <u>Survival of Covenants</u>. The provisions and restrictive covenants in this Section 9 shall survive the expiration or termination of this Agreement for any reason. The Executive agrees not to challenge the enforceability or scope of the provisions and restrictive covenants in this Section 9. The Executive further agrees to notify all future persons or businesses,

with which the Executive becomes affiliated or employed by, of the provisions and restrictions set forth in this Section 9, prior to the commencement of any such affiliation or employment. If any of the provisions in this Section 9 are construed to be invalid or unenforceable in any respect, the parties agree that the same may be modified as the court may direct to make such provisions and covenants reasonable, and such modification shall not affect the remainder of such provision, and such provisions shall be given the maximum possible effect and the modified agreement shall be fully enforceable.

- (i) <u>Injunctive Relief.</u> The Executive acknowledges that if the Executive breaches or threatens to breach any of the provisions of this Agreement, the Executive's actions will cause irreparable harm and damage to the Company which cannot be compensated by damages alone. Accordingly, if the Executive breaches or threatens to breach any of the provisions of this Agreement, the Company shall be entitled to injunctive relief, in addition to any other rights or remedies the Company may have. The Executive hereby waives the requirement for a bond by the Company as a condition to seeking injunctive relief. The existence of any claim or cause of action by the Executive against the Company, whether predicated on this Agreement or otherwise, shall not constitute a defense to the enforcement by the Company of the Executive's agreements under this Agreement.
- 10. <u>Entire Agreement</u>. This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to severance payments and benefits, and contains all of the agreements between the parties with respect to severance payments and benefits.

## 11. Miscellaneous.

- (a) Except for injunctive relief as set forth herein, the parties agree that any dispute or controversy arising under or in connection with this Agreement shall be resolved exclusively and finally by binding arbitration in Lewisville, Texas, before a single arbitrator, with such arbitration to be conducted in accordance with the rules of the American Arbitration Association's Commercial Arbitration Rules then in effect. Judgment on the arbitrator's award may be entered by any court having jurisdiction. The Company shall be responsible for its own attorneys' fees, costs and expenses and shall pay to the Executive an amount equal to all reasonable attorneys' and related fees, costs and expenses incurred by the Executive in connection with such arbitration and entry of judgment, but only if the arbitrator determines that the Executive prevailed on a material issue of the arbitration. If there is any dispute between the Company and the Executive as to the payment of such fees and expenses, the arbitrator shall resolve such dispute, which resolution shall also be final and binding on the parties, and as to such dispute only, the burden of proof shall be on the Company.
- (b) This Agreement shall be governed, construed and interpreted in accordance with the laws of the State of Texas (without regard to any provision of that State's rules on the conflicts of law that might make applicable the law of a jurisdiction other than that of the State of Texas). Subject to Section 11(a) hereof, all actions or proceedings for injunctive relief arising out of this Agreement shall exclusively be heard and determined in state or federal courts in the State

of Texas having appropriate jurisdiction for Collin County, Texas. The parties expressly consent to the exclusive jurisdiction of such courts in any such action or proceeding and waive any objection to venue therein and any defense of forum non conveniens.

- (c) This Agreement may be executed in any number of counterparts, each of which, when executed by both parties to this Agreement shall be deemed to be an original, and all of which counterparts together shall constitute one and the same instrument.
- (d) The failure of either party hereto to enforce any right under this Agreement shall not be construed to be a waiver of that right, or of damages caused thereby, or of any other rights under this Agreement.
- (e) This Agreement may not be amended or modified otherwise than by a written agreement executed by the parties hereto or their respective successors and legal representatives.
- (f) This Agreement shall inure to the benefit of and be binding upon the Company and its successors and assigns. This Agreement shall bind any successor of or to the Company, its assets or its businesses (whether direct or indirect, by purchase, merger, consolidation or otherwise), in the same manner and to the same extent that the Company would be obligated under this Agreement if no succession had taken place. In the case of any transaction in which a successor would not by the foregoing provision or by operation of law be bound by this Agreement, the Company shall require such successor expressly and unconditionally to assume and agree to perform the Company's obligations under this Agreement, in the same manner and to the same extent that the Company would be required to perform if no such succession had taken place. All rights under this Agreement are personal to the Executive and, without the prior written consent of the Company, shall not be assignable by the Executive otherwise than by shall or the laws of descent and distribution. This Agreement shall inure to the benefit of and be enforceable in the event of the Executive's death or disability by the Executive's legal representatives, heirs and legatees.
- (g) The Executive and the Company acknowledge that the employment of the Executive by the Company is "at will" and may be terminated by either the Executive or the Company at any time. Nothing contained in the Agreement shall affect such rights to terminate, provided, however, that nothing in this Section 11(g) shall prevent the Executive from receiving any amounts payable pursuant to Sections 3 or 4 hereof in the event of a termination described in such Sections.
- (h) Notwithstanding anything in this Agreement to the contrary, in no event shall anything in this Agreement (whether in Section 9 or otherwise) be interpreted to limit or restrict the Executive's right or ability to provide whistleblower information to the Securities and Exchange Commission regarding violations of the federal securities laws pursuant to Section 21F of the Exchange Act.

(i) Any provision in this Agreement which is prohibited or unenforceable in any jurisdiction shall, as to
such jurisdiction, be ineffective only to the extent of such prohibition or unenforceability without invalidating or affecting the
remaining provisions hereof, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or rende
unenforceable such provision in any other jurisdiction.

- (j) Notices and all other communications contemplated by this Agreement shall be in writing and shall be deemed to have been duly given when personally delivered or when mailed by U.S. registered or certified mail, return receipt requested and postage prepaid or when sent by express U.S. mail or overnight delivery through a national delivery service (or an international delivery service in the case of an address outside the U.S.) with signature required. Notice to the Company shall be directed to the attention of the General Counsel of the Company at the address of the Company's headquarters, and notice to the Executive shall be directed to the Executive at the Executive's most recent personal residence on file with the Company.
- (k) The Company shall deduct from the amounts payable to the Executive pursuant to this Agreement all required withholding amounts and deductions, including but not limited to federal, state and local withholding amounts in accordance all applicable laws and regulations and deductions authorized by the Executive. The Executive shall be solely responsible for and shall pay all taxes associated with the amounts payable under this Agreement.

IN WITNESS WHEREOF, each of the undersigned has executed this Agreement as of the date first above written.

# ORTHOFIX MEDICAL INC

By: /s/ Jon Serbousek

Jon Serbousek

President and Chief Executive Officer

**EXECUTIVE** 

/s/ Kevin Kenny

Kevin Kenny

Change in Control and Severance Agreement— Jon Serbousek Effective Date: December 4, 2019 Page 21

## **EXHIBIT A**

## Release

You, for yourself, your spouse and your agents, successors, heirs, executors, administrators and assigns, hereby irrevocably and unconditionally forever release and discharge Orthofix Medical Inc., a Delaware corporation, and its direct and indirect subsidiaries (all such entities, collectively, the "Company"), its parents, divisions and affiliates and its and their current and former owners, directors, officers, stockholders, insurers, benefit plans, representatives, agents and employees, and each of their predecessors, successors, and assigns (collectively, the "Releasees"), from any and all actual or potential claims or liabilities of any kind or nature, including, but not limited to, any claims arising out of or related to your employment and separation from employment with the Company and any services that you provided to the Company, any claims for salary, commissions, bonuses, other severance pay, vacation pay, allowances or other compensation, or for any benefits under the Employee Retirement Income Security Act of 1974 ("ERISA") (except for vested ERISA benefits); any claims for discrimination, harassment or retaliation of any kind or based upon any legally protected classification or activity; any claims under Title VII of the Civil Rights Acts of 1964, the Civil Rights Act of 1866 and 1964, as amended, 42 U.S.C. § 1981, the Age Discrimination in Employment Act, the Older Workers Benefit Protection Act, the Americans with Disabilities Act, 42 U.S.C. § 1981, 42 U.S.C. § 1983, the Family Medical Leave Act and any similar state law, the Fair Credit Reporting Act, and any similar state law, the Fair Credit Reporting Act, 15 U.S.C. § 1681, et seq., the Worker Adjustment and Retraining Notification Act, 29 U.S.C. § 2101, et seq., the Equal Pay Act and any similar state law, as well as any amendments to any such laws; any claims for any violation of any federal or state constitutions or executive orders; any claims for wrongful or constructive discharge, violation of public policy, breach of contract or promise (oral, written, express or implied), personal injury not covered by workers' compensation benefits, misrepresentation, negligence, fraud, estoppel, defamation, infliction of emotional distress, contribution and any claims under any other federal, state or local law, including those not specifically listed in this Release, that you, your heirs, executors, administrators, successors, and assigns now have, ever had or may hereafter have, whether known or unknown, suspected or unsuspected, up to and including the date of your execution of this Release.

For the purpose of implementing a full and complete release and discharge of the Releasees as set forth above, you acknowledge that this Release is intended to include in its effect, without limitation, all claims known or unknown that you have or may have against the Releasees which arise out of or relate to your employment, including but not limited to compensation, performance or termination of employment with the Company, except for, and notwithstanding anything in this Release to the contrary, claims which cannot be released solely by private agreement. This Release also excludes any claims relating to any right you may have to payments pursuant to Sections 3 or 4 of the Change in Control and Severance Agreement, entered into as of December 5, 2019, by and between the Company and me, any claim for workers' compensation benefits and any rights you may have to indemnification or directors' and officers' liability insurance under the Company's articles of association, certificates of incorporation or bylaws, any indemnification agreement to which you are a party or beneficiary or applicable law, as a result of having served

Change in Control and Severance Agreement— Jon Serbousek Effective Date: December 4, 2019 Page 22

as an officer, director or employee of the Company or any of its affiliates. You further acknowledge and agree that you have received all leave, compensation and reinstatement benefits to which you were entitled through the date of your execution of this Release, and that you were not subjected to any improper treatment, conduct or actions as a result of a request for leave, compensation or reinstatement.

You affirm, by signing this Release, that you have not suffered any unreported injury or illness arising from your employment, and that you have not filed, with any federal, state, or local court or agency, any actions or charges against the Releasees relating to or arising out of your employment with or separation from the Company. You further agree that while this Release does not preclude you from filing a charge with the National Labor Relations Board ("NLRB"), the Equal Employment Opportunity Commission ("EEOC"), or a similar federal, state or local agency, or from participating in any investigation or proceeding with them, you do waive your right to personally recover monies or reinstatement as a result of any complaint or charge filed against the Company with the NLRB, EEOC, or any federal, state or local court or agency.

You understand that the claims released in this Release do <u>not</u> include claims by you for: (1) unemployment insurance; (2) worker's compensation benefits; (3) state disability compensation; (4) previously vested benefits under any Company-sponsored benefits plan; and (5) any other rights that cannot by law be released by private agreement.

# You acknowledge:

- (a) That you were provided forty-five (45) full days during which to consider whether to sign this Release. If you have signed this Agreement prior to the expiration of the forty-five (45)-day period, you have voluntarily elected to forego the remainder of that period.
- (b) That you have carefully read and fully understand all of the terms of this Release.
- (c) That you understand that by signing this Release, you are waiving your rights under the Age Discrimination in Employment Act, as amended by the Older Workers Benefit Protection Act, 29 U.S.C. § 621, et seq., and that you are not waiving any rights arising after the date that this Release is signed.
- (d) That you have been given an opportunity and have been advised to consult with anyone you choose, including an attorney, about this Release.
- (e) That you understand fully the terms and effect of this Release and know of no claim that has not been released by this Release. And, you further acknowledge that you are not aware of, or that you have fully disclosed to the Company, any matters for which you are responsible or which has come to your attention as an employee of the Company that might give rise to, evidence, or support any claim of illegal

conduct, regulatory violation, unlawful discrimination, or other cause of action against the Company.

- That you have made full and truthful disclosures to the Company's compliance department regarding any misconduct (including any violations of federal securities laws) relating to the Company or its subsidiaries of which you are aware, and that you understand that notwithstanding anything herein or in any other agreement to the contrary, in no event shall you be prohibited or limited from my right to provide truthful information to or otherwise assist U.S. governmental authorities in any investigation regarding the Company (whether pursuant to Section 21F of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise), and in the event of such assistance, nothing herein or in any other agreement shall be deemed to conflict with my right to receive any award payable pursuant to Section 21F of the Exchange Act.
- (g) That these terms are final and binding on you.
- (h) That you have signed this Release voluntarily, and not in reliance on any representations or statements made to you by any employee or officer of the Company or any of its subsidiaries.
- (i) That you have seven (7) days following your execution of this Release to revoke it in writing, and that this Release is not effective or enforceable until after this seven (7) day period has expired without revocation. If you wish to revoke this Release after signing it, you must provide written notice of your decision to revoke this Release to the Company, to the attention of the General Counsel of the Company at the address of the Company's headquarters, by no later than 11:59 p.m. on the seventh calendar day after the date on which you have signed this Release.

# PLEASE READ CAREFULLY. THIS RELEASE INCLUDES A RELEASE OF ALL KNOWN AND UNKNOWN CLAIMS. ACKNOWLEDGED AND AGREED

Kevin Kenny	Date		

# The following is a list of our significant subsidiaries:

Company	Country of Incorporation	Ultimate Ownership by Parent
Orthofix Australia Pty Limited	Australia	100%
Orthofix do Brasil Ltda.	Brazil	100%
Orthofix S.A.	France	100%
Orthofix G.m.b.H.	Germany	100%
Orthofix Spine G.m.b.H.	Germany	100%
Orthofix S.r.l.	Italy	100%
Orthofix International B.V.	Netherlands	100%
Implantes y Sistemas Medicos, Inc.	Puerto Rico	100%
Orthofix AG	Switzerland	100%
Orthofix Limited	UK	100%
Orthofix Spinal Implants Inc. (formerly known as Blackstone Medical, Inc.)	US	100%
Orthofix Holdings, Inc.	US	100%
Orthofix Inc.	US	100%
Spinal Kinetics, LLC	US	100%
Spinal Kinetics GmbH	Germany	100%
Spinal Kinetics France SARL	France	100%
Orthofix III B.V.	Netherlands	100%

#### **Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in the following Registration Statements:

- (1) Form S-8 No. 333-153389 pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) Amended and Restated 2004 Long-Term Incentive Plan and the Orthofix Medical Inc. (formerly Orthofix International N.V.) Amended and Restated Stock Purchase Plan;
- (2) Form S-8 No. 333-226504 pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) Amended and Restated Stock Purchase Plan;
- (3) Form S-8 No. 333-172697 pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) Amended and Restated Stock Purchase Plan;
- (4) Form S-8 No. 333-226503 pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) 2012 Long-Term Incentive Plan;
- (5) Form S-8 No. 333-195797 pertaining to the Inducement Grant Non-Qualified Stock Option Agreement between Orthofix Medical Inc. (formerly Orthofix International N.V.) and Bradley R. Mason, the Inducement Grant Non-Qualified Stock Option Agreement between Orthofix Medical Inc. (formerly Orthofix International N.V.) and Mark A. Heggestad and the Inducement Grant Restricted Stock Agreement between Orthofix Medical Inc. (formerly Orthofix International N.V.) and Mark A. Heggestad;
- (6) Form S-8 No. 333- 206098 pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) 2012 Long-Term Incentive Plan;
- (7) Registration Statement (Form S-8 No. 333-224548) pertaining to the Orthofix Medical Inc. (formerly Orthofix International N.V.) Inducement Plan for Spinal Kinetics Employees; and
- (8) Registration Statement (Form S-8 No. 333-229500) pertaining to the Employee Inducement Restricted Stock Unit Agreement for Beth Stevenson of Orthofix Medical Inc.
- (9) Form S-8 No. 333-233031 pertaining to the Orthofix Medical Inc. Employee Inducement Non-Qualified Stock Option Agreement for Jon Serbousek and Employee Inducement Restricted Stock Unit Agreement for Jon Serbousek

of our reports dated February 24, 2020, with respect to the consolidated financial statements of Orthofix Medical Inc. (formerly Orthofix International N.V.) and the effectiveness of internal control over financial reporting of Orthofix Medical Inc. (formerly Orthofix International N.V.) included in this Annual Report (Form 10-K) of Orthofix Medical Inc. (formerly Orthofix International N.V.) for the year ended December 31, 2019.

/s/ Ernst & Young LLP

Dallas, Texas

#### **CERTIFICATION**

I, Jon Serbousek, certify that:

- 1. I have reviewed this annual report on Form 10-K of Orthofix Medical Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has material affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: February 24, 2020 By: /s/ JON SERBOUSEK

Name: Jon Serbousek

Title: President and Chief Executive Officer, Director

#### **CERTIFICATION**

### I, Doug Rice, certify that:

- 1. I have reviewed this annual report on Form 10-K of Orthofix Medical Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a. designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b. designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has material affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: February 24, 2020 By: /s/ DOUG RICE

Name: Doug Rice

Title: Chief Financial Officer

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of Orthofix Medical Inc. ("Orthofix") on Form 10-K for the period ended December 31, 2019, (the "Report"), as filed with the Securities and Exchange Commission on the date hereof, Jon Serbousek, Chief Executive Officer and President of Orthofix, and Doug Rice, Chief Financial Officer, each certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to his knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of Orthofix.

Dated: February 24, 2020 /s/ JON SERBOUSEK

Name: Jon Serbousek

Title: President and Chief Executive Officer

Dated: February 24, 2020 /s/ DOUG RICE

Name: Doug Rice

Title: Chief Financial Officer