



Morningstar Research Services LLC Form ADV Part 2A: Firm Brochure

22 West Washington Street
Chicago, IL 60602
Phone: 312.696.6000
www.corporate.morningstar.com

July 27, 2023

This brochure provides information about the qualifications and business practices of Morningstar Research Services LLC. If you have any questions about the contents of this brochure, please contact us at (312) 696-6000 or send an email to compliance@morningstar.com. The information in this brochure has not been approved or verified by the United States Securities and Exchange Commission or by any state securities authority.

Additional information about Morningstar Research Services LLC also is available on the SEC's website at www.adviserinfo.sec.gov.

Morningstar Research Services LLC is registered with the United States Securities and Exchange Commission as a registered investment adviser. Registration with the Securities and Exchange Commission does not imply a certain level of skill or training. Please retain this brochure for future reference.

Item 2. Material Changes

The Form ADV Part 2A dated July 27, 2023, contains the following material change since the firm's last Form ADV Part 2A filing dated May 10, 2023:

Updates were made in Item 10. Other Financial Industry Activities and Affiliations and Item 11. Code of Ethics, Participation or Interest in Client Transactions & Personal Trading. We removed language about Mike Holt, Morningstar Research Services' president of research, also being the head of indexes for our parent company, Morningstar, Inc. as he no longer has oversight of the index group. We also updated how we mitigate conflicts of interest as it relates to our affiliated entities.

Item 3. Table of Contents

Item 4. Advisory Business	1
Item 6. Performance-Based Fees and Side-by-Side Management	5
Item 7. Types of Clients.....	5
Item 8. Methods of Analysis, Investment Strategies and Risk of Loss.....	5
Item 9. Disciplinary Information.....	8
Item 10. Other Financial Industry Activities and Affiliations.....	8
Item 11. Code of Ethics, Participation or Interest in Client Transactions and Personal Trading	9
Item 12. Brokerage Practices	10
Item 13. Review of Accounts	10
Item 14. Client Referrals and Other Compensation	10
Item 15. Custody.....	10
Item 16. Investment Discretion.....	10
Item 17. Voting Client Securities	100
Item 18. Financial Information	11

Item 4. Advisory Business

A. Firm

Morningstar Research Services LLC is a Delaware limited liability company formed in 2016, and is a wholly owned subsidiary of Morningstar, Inc. ("Morningstar"). Morningstar is a publicly traded company (NASDAQ Ticker: MORN) with Mr. Joseph Mansueto, Executive Chairman of Morningstar, holding more than 30% of Morningstar's outstanding shares. Because of that ownership, Mr. Mansueto is an indirect owner of Morningstar Research Services.

Morningstar Research Services is registered with the United States Securities and Exchange Commission ("SEC") under Section 203(c) of the Investment Advisers Act of 1940, as amended. Morningstar Research Services consists primarily of investment professionals that were previously part of Morningstar's U.S.-based manager and equity research teams. Morningstar's manager and equity research teams have been producing investment research since 1986 and 1999 respectively.

B. Services - Overview

Investment Research Reports

Our core offering is the production of investment research reports on equity securities, mutual funds, exchange-traded funds, separately managed accounts, model portfolios, and other managed investment products ("Investment Research Reports"). Investment Research Reports are prepared without taking into consideration any investor or investor's specific facts and circumstances and thus are generic/impersonal investment advice intended to be educational in nature and for user's research purposes.

Our Investment Research Reports or excerpts from them are distributed in two primary ways: (1) through Morningstar's software products (e.g., Morningstar Direct), newsletters, and Morningstar branded websites (e.g., www.morningstar.com) (collectively "Distribution through Morningstar"); and (2) through license agreements directly with non-affiliated financial institutions including broker/dealer firms, banks, insurance companies, and investment advisory firms and media platforms ("License Arrangements").

Our core investment research offerings include the following:

1. *Equity Research Reports*

- We produce investment research reports with qualitative analysis on primarily North American equity securities. Our equity analysts utilize a proprietary discounted cash flow model as part of their evaluation of a security and their determination of its fair value estimate of the security's stock. See Item 8 below for details.

2. *Manager Research Reports*

- We produce investment research reports with qualitative analysis on certain open-end mutual funds, exchange-traded funds (ETFs), separately managed accounts, model portfolios, and other managed investment products (each a "Managed Investment" or collectively, "Managed Investments"). The cornerstone of our investment research is the determination of a Managed Investment's Morningstar Medalist RatingTM. See Item 8 below for more details.

As the process by which equities and Managed Investments can be analyzed is limited by the size of the equity and manager research teams, Morningstar has developed machine-learning models that use the decision-making process of the analysts, their past rating or analysis decisions, and the data used to support those decisions. The machine-learning models are then applied to create quantitative analysis or ratings,

which are designed to be analogous to what an analyst might produce if they covered the security.

Manager Due Diligence and Selection Services

We provide investment consulting services to affiliated registered investment advisers ("Affiliated Clients") as well as non-affiliated financial institutions including, but not limited to, broker/dealer firms, banks, insurance companies, and investment advisory firms ("Non-Affiliated Clients"). These services are provided on a non-discretionary basis; with the Affiliated and Non-Affiliated Clients (collectively "Institutional Clients") having final decision-making authority on whether to follow our recommendation(s) or not.

Our core manager due diligence and selection services, either on a stand-alone basis or in combination, are the following:

1. *Due Diligence*

- a. We apply quantitative screens and qualitative analysis to evaluate investment managers with the end goal of identifying those we believe would be appropriate for an Institutional Client to consider given their stated objective/purpose. See Item 8 below for details.
- b. In addition to identifying investment managers, we often are required to provide a written analysis on each investment manager including our rationale for recommending them.
- c. At the Institutional Client's discretion, we may be engaged to provide ongoing monitoring. This ongoing monitoring typically includes our periodically applying quantitative screens and qualitative analysis and when need be, recommending a change or changes to what we initially recommended to the Institutional Client. This is often supplemented with a written document detailing our rationale for such a change(s). Institutional Clients have the final decision-making authority as to whether to accept our recommendation or not and, if accepted, the timing of when the changes are to occur.
- d. If requested by an Institutional Client and based on their requirements, we use a questionnaire to conduct an operational due diligence review as part of our investment due diligence process.

2. *Investment Selection*

- a. We analyze an investment universe as defined by an Institutional Client and create a list of securities that meets the Institutional Client's specific criteria (e.g., certain performance level over a five-year period, tenure of portfolio manager). The list of securities is typically used by the Institutional Client in providing investment advice to their clients. A given list is typically broken down by asset class and for each asset class, the identification of several securities that have passed our quantitative screens and qualitative analysis. See Item 8 below for details. In engagements with Unaffiliated Clients, the list of securities under each asset class may require that a certain number of them be their proprietary securities. If such requirement is present, the Unaffiliated Client is responsible for communicating such constraint to its clients.
- b. In addition to identifying securities, we often are requested to provide a written analysis on each security including our rationale for recommending it.

- c. At the Institutional Client's discretion, we may also be engaged to perform ongoing monitoring. This ongoing monitoring typically includes periodically applying quantitative screens and qualitative analysis against the defined investment universe and when need be, recommending a change or changes that the Institutional Client may want to consider. In addition to recommending securities we often are required to provide a written analysis on our rationale for making such recommendation. The Institutional Client has the final decision-making authority as to accepting our recommendation or not and, if accepted, the timing of when the changes are to occur.

3. *Model Portfolios*

- a. We offer the Morningstar Medalist US Core Portfolios ("Medalist Core Portfolios") to institutional clients on a non-discretionary basis. The Medalist Core Portfolios are a series of diversified, multi-asset manager portfolios designed to provide investors across a range of risk tolerances access to differentiated portfolios.

Ancillary Services

1. *Tailored Account Coverage*

- a. The institutional sales team provides research via email distribution to clients based on account holdings and/or investment approach. Additionally, the team organizes client meetings and calls with equity research analysts, fields incoming client inquiries on equity research and answers client questions on thematic research. Custom screens and reports are also provided for client base.

2. *Newsletter Content*

We provide content for two newsletters (1) FundInvestor and (2) ETFInvestor distributed by Morningstar. The purpose of these newsletters is to provide subscribers education/information on an investment topic or topics as well as data, statistics and written analysis on a specific fund(s) and/or ETF(s).

3. *Other Commentaries/Reports*

- a. We prepare commentaries such as market outlooks, sector outlooks, industry reports, and thematic research as well as various other types of reports that are a more condensed/targeted format than what is in our standard investment research reports. Such commentaries and reports are available through Morningstar's software products, newsletters and Morningstar branded websites. The goal of these commentaries and reports is to provide readers with education/information. Our analysts also participate in videos produced by Morningstar and made available through Morningstar's branded websites and platforms.

4. *Analyst Access*

- a. Institutional Clients are given the ability to interact with our analysts about their published investment research (referred to hereafter as "Analyst Access"). During such conversations, the analyst can:
 - i. Answer questions pertaining to the content of their published research;
 - ii. Clarify points made within their published research;
 - iii. Provide insight into the analyst's research process;
 - iv. Reiterate the analysis/opinions made within the published research; and

- v. Provide their opinions on a given market sector or sectors.

4. *Due Diligence Tools*

- a. To assist with an Institutional Client's internal research team's processes and workflows for Managed Investment selection and monitoring, we prepare a custom suite of reports to help teams evaluate Managed Investments and operate more efficiently. Scorecards use objective and data-driven methods to rank Managed Investments based on formulas that aggregate many of the important characteristics that drive a Managed Investment's performance, as determined by Morningstar's research analysts. The Scorecards are delivered with updated data each month, using a client's preferred file type and location. Additional summary reports that assist with the due diligence process include Screens (a report that lists high-quality investments for different strategies and goals, according to Morningstar's research analysts), Alerts (a report that captures material changes and supports the monitoring workflow for a custom list of investments), and Red Flags (a report that captures warning signs and supports the monitoring workflow for a custom list of investments).

C. Customized Services

At an Institutional Client's request, we will take under consideration a request to provide them a customized version of the above services or a different type of advisory service that would utilize our investment research, due diligence, and Managed Investment selection expertise. Given the customized nature, the Institutional Client may impose constraints/restrictions on such things as security types, asset classes, or proprietary Managed Investment requirements and/or wish to collaborate with us on such things as investment methodology and screening criteria.

D. Wrap Fee Programs

We do not sponsor a wrap fee program, nor do we provide portfolio management services to a wrap fee program.

E. Assets Under Management

Given the nature of our services, we do not have assets under management.

Item 5. Fees and Compensation

A. Fees and Compensation

For our **Investment Research Reports**, our compensation is generally structured in the following way:

1. *Equity Research Reports*

- a. With respect to Distribution through Morningstar, we do not charge a separate fee to a subscriber of Morningstar's software or websites to access our qualitative reports on equity securities. The subscription fee charged to subscribers of Morningstar's software and/or websites not only includes access to such reports, but access to Morningstar's data, statistics, tools and general educational materials as well. That subscription fee is determined, billed and received by Morningstar. We do not receive a fee from Morningstar for subscriber's access to our qualitative reports.
- b. With respect to License Arrangements, fees are negotiable, but generally starts at \$500 per authorized user annually. The actual amount charged depends on a range of

variables including the number of users it wishes to have available to our investment research, the number of securities they wish to receive investment research reports on, the inclusion or exclusion of the analyst access service, the degree of customizations (e.g., translated in other languages), and the client's assets under management. The fee is typically charged quarterly in advance. In other instances, fees are based on the percentage of gross revenue received related to the use of an Equity Research Report. These fees are typically 10% of gross revenue and are charged quarterly in arrears. If, in accordance with contractual terms, the institutional client terminates the License Arrangement they have with us prior to the end of the billing period, we may refund any unearned fees on a pro rata basis after the termination of the contract. In addition to the fee, payment terms and payment schedules are negotiable.

- c. In certain cases, Non-Affiliated Clients may determine what to pay us for our Equity Research Reports by using a 'broker vote' process. That process is where we receive remuneration for our investment research and analyst access services based on its perceived value as determined by the institutional investor's representatives. Actual remuneration is determined by the institutional investor, is typically received in arrears and is paid to us by the institutional investor's broker(s) at intervals they and/or their broker determine.

2. *Manager Research Reports*

- a. With respect to Distribution through Morningstar, we do not charge a separate fee to a subscriber of Morningstar's software or websites to access our manager research reports. The subscription fee charged to subscribers of Morningstar's software and/or websites not only includes access to such reports, but access to Morningstar's data, statistics, tools and general educational materials as well. That subscription fee is determined, billed and received by Morningstar. We do not receive a fee from Morningstar for subscriber's access to our Manager Research Reports.
- b. With respect to License Arrangements, fees are negotiable, but generally starts at \$500 per authorized user annually. The actual amount charged to the institutional client depends on a range of variables including the number of users they wish to have access to our investment research, the type of client they wish to redistribute our research to, the number of Funds they wish to receive investment research reports on, the inclusion or exclusion of the analyst access service, the degree of customizations (e.g., translated in other languages), and the client's assets under management. The fee is typically charged quarterly in advance. If, in accordance with contractual terms, the institutional client terminates the License Arrangement they have with us prior to the end of the billing period, we may refund any unearned fees on a pro rata basis after the termination of the contract. In addition to the fee, payment terms and payment schedules are negotiable.

For **Manager Due Diligence and Selection Services**, our compensation is the following:

1. *Due Diligence*

- a. Fees are negotiable, but typically starts at \$5,000 per investment strategy reviewed. The actual amount charged to a Non-Affiliated Client depends on a range of variables including their intended use, the number of investment strategies they wish to have reviewed, the type of reporting they wish to receive from

us, the degree of customizations or constraints they wish to place on us, and whether they want us to provide on-going monitoring services. The fee is typically charged quarterly in advance. If, in accordance with contractual terms, the Non-Affiliated Client terminates the License Arrangement prior to the end of the billing period, we may refund any unearned fees on a pro rata basis after the termination of the contract. In addition to the fee, payment terms and payment schedules are negotiable. Fees in connection with services provided to Affiliated Clients are typically governed by an intercompany agreement and is often lower than the above stated amount.

2. *Investment Selection*

- a. Fees are negotiable, but typically starts at \$50,000 per standard list or \$65,000 per custom list annually. The actual amount charged to a Non-Affiliated Client depends on a range of variables including their intended use, the number and type of asset classes they wish the list to cover, the number and type of Managed Investments they wish the list to have, the type of reporting they wish to receive from us, the degree of customizations or constraints they wish to place on us, and whether they want us to provide on-going monitoring services. The fee is typically charged quarterly in advance. In instances where our Investment Selection services are used as an input for an Institutional Client's financial product, basis point fees are generally charged. Basis point fees are charged quarterly in arrears, and typically start at 15-20 bps annually. If, in accordance with contractual terms, the Non-Affiliated Client terminates the License Arrangement prior to the end of the billing period, we may refund any unearned fees on a pro rata basis after the termination of the contract. In addition to the fee, payment terms and payment schedules are negotiable. Fees in connection with services provided to Affiliated Clients are typically governed by an intercompany agreement and is often lower than the above stated amount.

3. *Model Portfolios*

- a. Fees are negotiable but are typically comprised of an annual fee ranging from 10-15 basis points based upon the aggregate value of all accounts participating in the Program, a fixed annual fee starting at \$65,000 or a combination of a fixed fee and asset-based fee.

For **Ancillary Services:**

1. *Newsletters*

- a. We do not charge a separate fee to the subscribers of Morningstar's Newsletters to access our written analysis of other commentaries/reports. The subscription fee for the FundInvestor and ETFInvestor newsletters is determined, billed and received by Morningstar. We do not receive a fee from Morningstar for subscriber's access to our commentaries/reports.

2. *Other Commentaries/Reports*

- a. We do not charge a separate fee to Morningstar's software or websites subscribers to access our other commentaries/reports. The subscription fee charged to subscribers of Morningstar's software and/or websites not only includes access to such commentaries/reports, but access to

Morningstar's data, statistics, tools and general educational materials as well. That subscription fee is determined, billed and received by Morningstar. We do not receive a fee from Morningstar for subscriber's access to our commentaries/reports.

3. *Analyst Access*

- a. *Equity Analysts*
 - i. Licensed Agreements – compensation for granting access to our equity analysts is negotiable and is included in the per user charge as referred to in 1(b) of Section A of Fees and Compensation above. In 'broker vote' cases, remuneration paid by the institutional investor includes their perceived value in having access to our equity analysts.
- b. *Manager Research Analysts*
 - i. Licensed Agreements – compensation for granting access to our manager research analysts is negotiable and is included in the per user charge as referred to in 2(b) of Section A of Fees and Compensation above.

4. *Due Diligence Tools*

- a. With respect to License Arrangements, fees are negotiable, but generally starts at \$20,000 annually. The actual amount charged depends on a range of variables including the number of users with access, how the tools will be used, and how the reports will be distributed. The fee is typically charged quarterly in advance. If, in accordance with contractual terms, the institutional client terminates the License Arrangement they have with us prior to the end of the billing period, we may refund any unearned fees on a pro rata basis after the termination of the contract. In addition to the fee, payment terms and payment schedules are negotiable.

For **Customized Services:**

Fees for a customized version of the above services or a different type of advisory services that would utilize our investment research, due diligence, or investment selection expertise are negotiable. In negotiating with an institutional investor, the actual amount charged depends on a range of variables including the type of service being sought, the type of securities involved (e.g., equities or Managed Investments), the intended purpose for our service, the type of output being sought from us, the intended use of the Morningstar name. In addition to the fee, payment terms and payment schedules are negotiable.

B. Payment

Payments, payment terms and payment schedules are negotiable and governed by the contractual agreement with the Non-Affiliated Clients. Other than Affiliated Clients, we typically send an invoice on a quarterly basis, although in some instances, we may bill monthly or annually. For our Affiliated Clients, fees are charged through an intercompany charge.

C. Other Costs in Connection with our Advisory Services

The above noted fees are separate from fees and expenses one may incur if followed our recommendations. For example, investors in an equity security will be subject to brokerage/transaction costs and custodian fees or expenses whereas investors of open-end funds and exchange-traded funds will be subject to fees and expenses as described in their prospectus including management fee, operating expenses, distribution charges including 12b-1 fees and for open-end mutual fund, sales charges (e.g., front-end sales loads), and for exchange-traded funds brokerage/transaction costs.

D. Charging Fees in Advance

If, in accordance with contractual terms, we agree to terminate a contract with the institutional client prior to the end of the billing period, we generally refund any unearned fees on a pro rata basis after the termination of the contract.

E. Compensation from Sales of Securities

We do not expect, accept or receive compensation for the sale of securities that are the subject of our Investment Research Reports.

F. Revenue Sharing Arrangements

We do not have any revenue sharing arrangements with any registered investment advisers or mutual funds.

Item 6. Performance-Based Fees and Side-by-Side Management

We do not have performance-based fee arrangements with any qualified client pursuant to Rule 205-3 under the Investment Advisers Act of 1940, as amended.

Item 7. Types of Clients

The type of client to whom we generally provide investment advice to are financial institutions as more fully explained in Item 4 above many of whom are themselves registered with a regulatory body.

Item 8. Methods of Analysis, Investment Strategies and Risk of Loss

Investment Research Reports

Analysis Performed on Equities

At the heart of our valuation system is a detailed projection of a company's future cash flows, resulting from our analysts' research. Analysts create custom industry and company assumptions to feed income statement, balance sheet, and capital investment assumptions into our globally standardized, proprietary discounted cash flow, or DCF, modeling templates. We use scenario analysis, in-depth competitive advantage analysis, and a variety of other analytical tools to augment this process. Moreover, we think analyzing valuation through discounted cash flows presents a better lens for viewing cyclical companies, high-growth firms, businesses with finite lives (e.g., mines), or companies expected to generate negative earnings over the next few years. That said, we don't dismiss multiples altogether but rather use them as supporting cross-checks for our DCF-based fair value estimates. We also acknowledge that DCF models offer their own challenges (including a potential proliferation of estimated inputs and the possibility that the method may miss short-term market-price movements), but we believe these negatives are mitigated by deep analysis and our long-term approach.

We believe that a company's intrinsic worth results from the future cash flows it can generate. The Morningstar Rating for stocks identifies stocks trading at a discount or premium to their intrinsic worth—or fair value estimate, in Morningstar terminology. Five-star stocks sell for the biggest risk-adjusted discount to their fair values, whereas 1-star stocks trade at premiums to their intrinsic worth.

Four key components drive the Morningstar rating: (1) our assessment of the firm's economic moat, (2) our estimate of the stock's fair value, (3) our uncertainty around that fair value estimate and (4) the current market price. This process ultimately culminates in our single-point star rating.

1. Morningstar Economic Moat Rating

The concept of an economic moat plays a vital role not only in our qualitative assessment of a firm's long-term investment potential, but also in the actual calculation of our fair value estimates. An economic moat is a structural feature that we believe positions a firm to sustain excess profits over a long period, with excess profits defined as returns on invested capital (or ROIC) over and above our estimate of a

firm's cost of capital, or weighted average cost of capital (or WACC). An economic moat is not an indicator of the investment performance of a firm. Firms without a moat, including those that have a substantial threat of value destruction related risk related to ESG, industry disruption, financial health, or other idiosyncratic issues, are more susceptible to competition. We have identified five sources of economic moats: intangible assets, switching costs, network effect, cost advantage, and efficient scale.

Companies with a narrow moat are those we believe are more likely than not to achieve normalized excess returns for at least the next 10 years.

Wide-moat companies are those in which we believe excess returns will remain for 10 years, with excess returns more likely than not to remain for at least 20 years.

To assess the durability of excess profits, analysts perform ongoing assessments of the moat trend. A firm's moat trend is positive in cases where we think its sources of competitive advantage are growing stronger; stable where we don't anticipate changes to competitive advantages over the next several years; or negative when we see signs of deterioration.

2. Estimated Fair Value

Combining our analysts' financial forecasts with the firm's economic moat helps us assess how long returns on invested capital are likely to exceed the firm's cost of capital. Returns of firms with a wide economic moat rating are assumed to fade to the perpetuity period over a longer period than the returns of narrow-moat firms, and both will fade slower than no-moat firms, increasing our estimate of their intrinsic value.

Our model is divided into three distinct stages for operating companies. In the first stage, which can last five to 10 years, analysts make full financial statement forecasts, including revenue, profit margins, tax rates, changes in working-capital accounts, and capital spending. Based on these projections, we calculate earnings before interest, after taxes, and the net new investment to derive our annual free cash flow forecast. We define the second stage of our model as the period it will take the company's return on new invested capital to decline (or rise) to its cost of capital. During this period, we use a formula to approximate cash flows in lieu of explicitly modeling the income statement, balance sheet, and cash flow statement as done in the first stage. The length of this stage depends on the strength of the company's economic moat and can last anywhere from one year (for companies with no economic moat) to 10-15 years or more (for wide-moat companies.) In the third stage, we calculate a continuing value using a standard perpetuity formula once a company's marginal return on invested capital hits its cost of capital.

Because a dollar earned today is worth more than a dollar earned tomorrow, we discount our projections of cash flows to arrive at a total present value of expected future cash flows. Because we are modeling free cash flow to the firm—representing cash available to provide a return to all capital providers—we discount future cash flows using a weighted average of the costs of equity, debt, and preferred stock (and any other funding sources), using expected future proportionate long-term, market-value weights. For mainly financial companies, we use a free cash flow to equity model and discount free cash flows by the company's cost of equity.

3. Uncertainty around Fair Value Estimates

Our Uncertainty Rating is intended to capture a range of likely potential intrinsic values for a company and we use it to assign the margin of safety required before investing, which in turn explicitly drives our stock star rating system. The Uncertainty Rating represents the analysts' ability to bound the estimated value of the shares in a company around the Fair Value Estimate, based on the characteristics of the business underlying the stock, including operating and financial leverage, sales sensitivity to the overall economy,

product concentration, pricing power, exposure to material ESG risks, and other company-specific factors.

Our Uncertainty Ratings for our qualitative analysis are low, medium, high, very high, and extreme.

- **Low** – margin of safety for 5-star rating is a 20% discount and for 1-star rating is 25% premium.
- **Medium** – margin of safety for 5-star rating is a 30% discount and for 1-star rating is 35% premium.
- **High** – margin of safety for 5-star rating is a 40% discount and for 1-star rating is 55% premium.
- **Very High** – margin of safety for 5-star rating is a 50% discount and for 1-star rating is 75% premium.
- **Extreme** – margin of safety for 5-star rating is a 75% and for a 1-star rating is 300% premium.

Morningstar Star Rating for Stocks

Once we determine the fair value estimate of a stock, we compare it with the stock's current market price daily, and the star rating is automatically re-calculated at the market close on every day the market on which the stock is listed is open. Our analysts keep close tabs on the companies they follow, and based on thorough and ongoing analysis, raise or lower their fair value estimates as warranted.

Please note, there is no predefined distribution of stars. That is, the percentage of stocks that earn 5 stars can fluctuate daily, so the star ratings, in the aggregate, can serve as a gauge of the broader market's valuation. When there are many 5-star stocks, the stock market is more undervalued, in our opinion, than when very few companies garner our highest rating.

We expect that if our base-case assumptions are true the market price will converge on our fair value estimate over time, generally within three years (although it is impossible to predict the exact time frame in which market prices may adjust).

The Morningstar Star Ratings for stocks are defined below:

Five-Stars -- We believe appreciation beyond a fair risk-adjusted return is highly likely over a multiyear time frame. Scenario analysis developed by our analysts indicates that the current market price represents an excessively pessimistic outlook, limiting downside risk and maximizing upside potential.

Four-stars -- We believe appreciation beyond a fair risk-adjusted return is likely.

Three-stars -- Indicates our belief that investors are likely to receive a fair risk-adjusted return (approximately cost of equity).

Two-stars -- We believe investors are likely to receive a less than fair risk-adjusted return.

One-star -- Indicates a high probability of undesirable risk-adjusted returns from the current market price over a multiyear time frame, based on our analysis. Scenario analysis by our analysts indicates that the market is pricing in an excessively optimistic outlook, limiting upside potential and leaving the investor exposed to Capital loss.

For more detail information about our methodology, please go to <http://global.morningstar.com/equitydisclosures>.

Morningstar Medalist Rating™

The Morningstar Medalist Rating is the summary expression of Morningstar's forward-looking analysis of investment strategies as offered via specific vehicles

using a rating scale of Gold, Silver, Bronze, Neutral, and Negative. The Medalist Ratings indicate which investments Morningstar believes are likely to outperform a relevant index or peer group average on a risk-adjusted basis over time. Investment products are evaluated on three key pillars (People, Parent, and Process) which, when coupled with a fee assessment, forms the basis for Morningstar's conviction in those products' investment merits and determines the Medalist Rating they're assigned. Pillar ratings take the form of Low, Below Average, Average, Above Average, and High. Pillars may be evaluated via an analyst's qualitative assessment (either directly to a vehicle the analyst covers or indirectly when the pillar ratings of a covered vehicle are mapped to a related uncovered vehicle) or using algorithmic techniques. Vehicles are sorted by their expected performance into rating groups defined by their Morningstar Category and their active or passive status. When analysts directly cover a vehicle, they assign the three pillar ratings based on their qualitative assessment, subject to the oversight of the Analyst Rating Committee, and monitor and reevaluate them at least every 14 months. When the vehicles are covered either indirectly by analysts or by algorithm, the ratings are assigned monthly. For more detailed information about the Medalist Ratings, including their methodology, please go to <http://global.morningstar.com/managerdisclosures>.

The Morningstar Medalist Ratings are not statements of fact, nor are they credit or risk ratings. The Morningstar Medalist Rating (i) should not be used as the sole basis in evaluating an investment product, (ii) involves unknown risks and uncertainties which may cause expectations not to occur or to differ significantly from what was expected, (iii) are not guaranteed to be based on complete or accurate assumptions or models when determined algorithmically, (iv) involve the risk that the return target will not be met due to such things as unforeseen changes in changes in management, technology, economic development, interest rate development, operating and/or material costs, competitive pressure, supervisory law, exchange rate, tax rates, exchange rate changes, and/or changes in political and social conditions, and (v) should not be considered an offer or solicitation to buy or sell the investment product. A change in the fundamental factors underlying the Morningstar Medalist Rating can mean that the rating is subsequently no longer accurate.

Morningstar ESG Commitment Level

The Morningstar ESG Commitment Level expresses our analysts' assessments of asset managers' determination to incorporate ESG factors into their investment processes and organizations. It is assigned to asset managers following a four-tier scale: Leader, Advanced, Basic, and Low:

- **Leaders** – ESG is core to their identity. They have long histories committed to ESG investing and ESG considerations are ingrained and pervasive in their investment processes, strategies, voting records, and in their own operations.
- **Advanced** – Among the industry's better ESG proponents. They are deliberate in integrating ESG considerations into investment processes.
- **Basic** – In the early stages of ESG incorporation. Some have a well-intention approach and dedicated resources, but their proxy-voting records and disclosures are still works in progress.
- **Low** – Just getting started on incorporating ESG considerations into their processes, using ESG criteria in a limited or more variable way, or simply not incorporating ESG at all.

The ESG Commitment Level does not evaluate expected performance; it is focused on the extent to which asset managers incorporate ESG considerations into their investment processes and decisions and on which asset managers are leading the way when it comes to ESG investing.

Manager Due Diligence and Selection Services

Manager Due Diligence Analysis Process

Our manager due diligence process is consistent with the process described in the below Investment Selection section.

Investment Selection

We begin the process by developing a *blueprint* in consultation with the Institutional Client. During this development phase, various items are determined including, but not limited to, the universe of Managed Investments from which we are to choose from, the asset classes to be addressed, the number of Managed Investment selections per asset class, the intended users of the list, and the intended account type (e.g., taxable or tax-deferred). Once the *blueprint* has been created, we apply quantitative screens (e.g., manager tenure, portfolio exposures, and risk and return characteristics) to the available investment universe to narrow the list. Managed Investments passing those initial quantitative screens are then subject to a qualitative analysis. During that analysis, we are assessing each Managed Investment on its own merits including looking at the Morningstar Medalist Rating assigned to it, giving preference to those that have a Gold, Silver, or Bronze Rating. During the qualitative analysis phases, we are also assessing how the Managed Investment compares to other Managed Investments in its asset class as well among all the asset classes paying attention to diversification of investment approach within each asset class and overall.

We monitor the Managed Investments on a list typically on a quarterly basis following the same process used for the initial selection. Changes that we believe may negatively affect a Managed Investment's long-term prospects will lead us to put that Managed Investment on watch while we continue to monitor it. Generally, a Managed Investment's watch period is two to four quarters at which point we will make a recommendation to remove the Managed Investment from the select list or to take it off watch.

Morningstar Medalist US Core Portfolios

The Medalist Portfolios are anchored in the asset allocations of the Morningstar US Target Allocation Indexes, which cover five target risk levels from Conservative to Aggressive. These broad-based indexes reflect the aggregate allocation decisions of multi-asset managers; thus, the Medalist Portfolios aim for allocations consistent with their peer groups. We take a strategic asset allocation approach and do not make short-term tactical allocation decisions. A portfolio is created for each risk level.

Manager selection is at the heart of the Medalist Portfolios. Fund selection is driven by Morningstar's team of manager research analysts, who create a refined list of Medalist funds across the categories eligible for the portfolios. Medalist funds are those Morningstar believes are likely to outperform a relevant index or peer group average on a risk-adjusted basis over time, and Medalist ratings are established through a rigorous quantitative and qualitative process that has been validated through extensive testing. Funds are evaluated based on three key pillars – Process, People, and Parent. Morningstar also assesses Performance and Price when assigning Medalist Ratings to vehicles.

Morningstar's Manager Due Diligence and Selection Services team conducts the final selection of funds for the Medalist Portfolios. These decisions balance the individual performance characteristics of a fund with its contribution to overall portfolio risk. We use a variety of proprietary Morningstar tools and data to ensure that the Medalist Portfolios are not only diversified by style but also consistent with benchmark exposures and not subject to unexpected factor risks.

The Manager Due Diligence and Selection team evaluates and rebalances the Medalist Portfolio allocations quarterly. We will consider rebalancing broad asset allocations back toward their strategic targets if they have deviated more than 5% beyond the strategic asset allocation, but we try to limit such rebalancing to limit tax consequences. We have a hard limit in place to rebalance if allocations have drifted more than 10% beyond strategic targets.

Scorecard Scoring Framework

Scorecards use a quantitative scoring framework to compare similar Managed Investments based on investment type, active/passive, and category using a variety of characteristics that we believe impact their risk-adjusted return potential. This information can be used by Institutional Clients to enhance their Managed Investment review process and reflects the interrelationship of 12 data points that represent characteristics of a Managed Investment's process, performance, people, parent, and price. Since performance doesn't hinge on a single variable, our process combines interrelated factors using proprietary scoring models based on our five-pillar research framework and data-driven analysis. Scorecards are delivered monthly and include embedded screens, filters, and sorting tools to help navigate the results.

A Managed Investment's score is the result of aggregating 12 scoring factors using a weighted average calculation. In order to combine different scoring factors, raw data values are adjusted to percentile rankings to appear on the same scale. The percentile rankings multiplied by a weight assigned to each factor and the 12 factors are added together to calculate the Managed Investment's score. Once the Managed Investment's score is determined, it is ranked within its peer group, and the peer group's rankings are divided into quartiles.

Six Scorecards are made available, and each Scorecard's rankings are determined by 12 scoring factors. The 12 scoring criteria and weights used vary across the six Scorecards. Price contributes most to the overall score as we feel it is the most reliable indicator of a Managed Investment's future return potential. Relatively small importance is placed on past performance. If the data for a scoring factor is unavailable, the value is removed from the calculation and the remaining scoring factors are reweighted proportionally to total 100%. Managed Investments with at least 50% representation of their respective scoring factors, at least one year of performance, and placement in a peer group with three or more Managed Investments is required for a Managed Investment to appear in a Scorecard, along with additional eligibility criteria that varies depending on each Scorecard. Managed Investments in undefined categories or those whose objective does not aim to provide high risk-adjusted returns are excluded. Examples of excluded categories include those related to money market funds, commodities, alternatives and leveraged or inverse funds. Managed Investment in these categories account for a very small percentage of assets in U.S. mutual funds and ETFs.

Risk Warning

Investments in securities are subject to market, risk of loss and other risks and there is no assurance or guarantee that the intended investment objectives will be achieved. We do not represent or guarantee that our investment recommendations (including Morningstar Star Rating for Stocks and Morningstar Medalist Ratings) can or will predict future results, will successfully identify market's highs and lows, or will protect its clients from losses. Past performance of a security may or may not be sustained in future and is no indication of future performance. A security investment return and an investor's principal value will fluctuate so that, when redeemed, an investor's shares may be worth more or less than their original cost.

Our recommendations are made without taking into consideration any retail investor or investors specific facts and circumstances including potential tax consequences. We are unable to predict or forecast market fluctuations or other uncertainty that may affect the value of any investment. While we intend for our investment research to be valuable information and useful in making an informed decision, the investor is responsible for determining the appropriateness of a security based on their own facts and circumstances, including their cash flow needs, time horizon, risk appetite, and tax consequences. We encourage investors to review and take into consideration all other available information on a given security (e.g., prospectus or an equivalent).

Morningstar Star Rating for Stocks should not be used as the sole basis for investment decisions. Morningstar Star Rating for Stocks factors in an analyst's current fair value estimate for a stock; therefore, involves unknown risks and uncertainties that may cause their estimate to differ significantly from actual results. We do not represent the

Morningstar Star Rating for Stocks to be guarantees nor should they be viewed as an offer or solicitation to buy or sell a Security.

The Morningstar Medalist Ratings are not statements of fact, nor are they credit or risk ratings. The Morningstar Medalist Rating (i) should not be used as the sole basis in evaluating an investment product, (ii) involves unknown risks and uncertainties which may cause expectations not to occur or to differ significantly from what was expected, (iii) are not guaranteed to be based on complete or accurate assumptions or models when determined algorithmically, (iv) involve the risk that the return target will not be met due to such things as unforeseen changes in changes in management, technology, economic development, interest rate development, operating and/or material costs, competitive pressure, supervisory law, exchange rate, tax rates, exchange rate changes, and/or changes in political and social conditions, and (v) should not be considered an offer or solicitation to buy or sell the investment product. A change in the fundamental factors underlying the Morningstar Medalist Rating can mean that the rating is subsequently no longer accurate.

The Morningstar Medalist Ratings are subjective in nature and should not be used as the sole basis for investment decisions. We do not represent the Morningstar Medalist Ratings to be guarantees nor should they be viewed as an assessment of a Managed Investment's or Management Investment's underlying securities' creditworthiness. Morningstar Medalist Ratings should not be considered an offer or solicitation to buy or sell the Managed Investment.

Item 9. Disciplinary Information

We are required to disclose all material facts regarding any legal or disciplinary events that would influence a potential client to engage us. Morningstar Research Services does not have any such legal or disciplinary events to disclose.

Item 10. Other Financial Industry Activities and Affiliations

Morningstar Research Services is a wholly owned subsidiary of Morningstar. Our offerings center around the production of Investment Research Reports and Manager Due Diligence and Selection Services to financial institutions/institutional investors who themselves are registered with a regulatory body. Other than what is described in Item 4 above, we are not actively engaged in any other business activity.

Affiliations – Registered Entities

Morningstar has an investment management group that consists of various subsidiaries across the globe each being registered with the applicable regulatory body or bodies in that country ("Morningstar's Investment Management group"). We are not part of Morningstar's Investment Management group. We mitigate conflicts of interests between us and Morningstar's Investment Management group by such things as:

- Maintaining separate legal entities;
- Maintaining applicable regulatory supervision lines
- Maintaining physical separation (e.g., occupying separate floors or using barriers if on the same floor);
- Maintaining technology separation;
- Maintaining a committee structure (i.e., very limited unilateral decisions); and
- Monitoring personal trading activity of employees.

Two such subsidiaries are located in the United States; they are Morningstar Investment Management LLC and Morningstar Investment Services LLC, both of whom are registered as investment advisers under the Investment Advisers Act of 1940. Morningstar Investment Services is additionally registered with the Securities and Exchange Commission as a broker-dealer and a member of Financial Industry Regulatory Authority (FINRA). Morningstar Investment

Management consists of two groups – Morningstar WealthSM and Morningstar RetirementSM.

Morningstar's Investment Management group may engage us to perform due diligence and/or investment selection services as more fully described under the Manager Due Diligence and Selection Services section within Item 4 above. On such occasions, we will be compensated for services rendered via an intercompany charge. The services and compensation will be governed by an intercompany agreement. This compensation will likely be lower than compensation negotiated with non-affiliated financial institutions/institutional investors for same or similar services. In addition, the bonus compensation plan for employees within the Manager Selection team will be based on that of Morningstar Retirement to align with where the team's work has the most impact. Our employees who are engaged to provide due diligence and/or investment selection services are prohibited from using non-public/confidential information obtained because of its engagement in its Investment Research Reports and/or Manager Due Diligence and Selection Services to Non-Affiliated Clients.

Morningstar Wealth has and maintains model portfolios and separately managed accounts that are available through Morningstar Investment Services' role as the sponsor of an investment advisory program known as the Wealth Platform and through under various third-party financial institutions. Those model portfolios and separately managed accounts consist of open-end mutual funds, exchange-traded funds, equity securities and/or fixed-income securities. Investment decisions relating to these model portfolios and separately managed accounts are solely those of Morningstar Wealth or their designees. We may issue Investment Research Reports on or recommend to Institutional Clients one or more of the securities Morningstar Wealth may utilize in one or more of its model portfolios or separately managed accounts. If we become aware of investment decisions related to these portfolios, it is after such decisions have been made and trade instructions been issued. Conflicts of interest resulting from this are mitigated through the review of personal trading account activities of both Morningstar's Investment Management group's and Morningstar Research Services' access persons by Morningstar's compliance department.

Morningstar Investment Management serves as an investment adviser to investment companies registered under the Investment Company Act of 1940. To mitigate conflicts of interest, we do not prepare qualitative analysis on nor recommend as part of our Manager Due Diligence and Selection Services any investment company Morningstar Investment Management is an investment adviser to. We have affiliates who are in other countries and who produce and issue investment research on equity securities or that country's equivalent to mutual funds (e.g., collective investment schemes). As such, our senior managers and certain supervisors within our equity and manager research teams may have supervisory responsibilities over certain employees of those non-U.S. entities ("Supervisors"). While we don't believe such arrangements present conflicts of interests or compromises the integrity of the investment research produced by these non-U.S. registered entities (or ours), we are mindful that such arrangement does give Supervisors the potential to be exposed to yet-to-be published views and analysis and/or changes in estimates of these non-U.S. registered entity's equity and manager research analysts (i.e., their confidential information). To mitigate sharing and/or using such confidential/non-public information, we have in place a policy prohibiting such practice and the compliance department monitors the personal trading accounts of Supervisors and their immediate family members.

Affiliations – Morningstar, Inc.

Morningstar, our parent company, is a publicly traded security (Ticker Symbol: MORN). We may produce Investment Research Reports on or recommend a Managed Investment(s) that holds a position in Morningstar's publicly traded stock. We mitigate any actual or potential conflicts of interests by not factoring Morningstar's publicly traded stock into our qualitative or quantitative analysis nor in our manager selection recommendations.

Morningstar has and maintains accounts which they invest in accordance with investment strategies created and maintained by Morningstar Investment Management. Those investment strategies are deployed using equity securities. We

may issue Investment Research Reports on one or more of the securities Morningstar may hold in those strategies. Investment decisions relating to those accounts are those of Morningstar Investment Management, who is acting as Morningstar's discretionary investment adviser. If we become aware of such investment decisions, it is after such decisions have been made by Morningstar Investment Management and trade instructions being issued. Conflicts of interest resulting from this are mitigated through the review of personal trading account activities of both Morningstar Investment Management and Morningstar Research Services access persons by Morningstar's compliance department. Conversely, we do not share any yet-to-be published views and analysis and/or changes in estimates (i.e., their confidential information) with Morningstar Investment Management personnel on any security they may hold in connection with the above-mentioned investment strategies.

Morningstar may engage us to perform investment research, due diligence, or investment selection services as more fully described in Item 4 above. If we receive compensation for these services, it will likely be lower than compensation negotiated with non-affiliated financial institutions/institutional investors for same or similar services. Our employees who are engaged to provide Morningstar with these services are prohibited from using non-public/confidential information obtained because of its engagement in its Investment Research Reports and/or Manager Due Diligence and Selection Services to Non-Affiliated Clients.

Certain exchange-traded funds use a Morningstar index as its tracking index. We mitigate any actual or potential conflicts of interests resulting from that by not producing qualitative analysis on any such exchange-traded fund as well as imposing informational barriers (both technology and non-technology), having separate organizational reporting lines between us and Morningstar's index team, and monitoring by the compliance department.

We may make our Non-Affiliated Clients aware of various products and services offered by Morningstar or its affiliates. We do not receive compensation for that introduction. Conversely, Morningstar and its affiliates may make their clients aware of services we provide. We do not provide any compensation to Morningstar or its affiliates for that introduction, however Morningstar or an affiliate can choose to pay their employees additional sales compensation for the introduction.

Morningstar hosts educational events and conferences and may provide us the opportunity to suggest invitees or offer (proactively or upon request) discounted or waived registration fees. We mitigate any actual or potential conflicts of interest this may introduce by using pre-defined criteria to select Clients for these opportunities.

Morningstar offers various products and services to retail and institutional investors. Some of its clients may be sponsors of Managed Investments that we may recommend to our Institutional Clients or whose publicly traded stock is covered by our equity analysts. We mitigate any actual or potential conflicts of interests resulting from this fact through such measures as informational barriers (both technology and non-technology), organizational reporting lines, monitoring by the compliance department, and not factoring in such relationships with Morningstar into our qualitative or quantitative analysis.

As a wholly owned subsidiary, we use the resources, infrastructure and employees of Morningstar to provide certain support services including in such areas as technology, procurement, human resource, accounting, legal and compliance. We do not believe such arrangement present a conflict of interests to us in terms of our producing investment research reports or providing manager due diligence and selection services.

Affiliations – Morningstar, Inc.'s Subsidiaries

Equity and manager research analysts based outside the U.S.A. are employed by various wholly owned subsidiaries of Morningstar ("Non-U.S. Analysts"). These Non-U.S. Analysts follow the same investment methodologies and process as we do as well as being held to the same conduct standards as our equity and manager research analysts are held to including those items noted in Item 11 below. As a result, we do not believe this structure causes actual or a potential for a conflict of interests.

Affiliations – Credit Rating Agency

We are affiliated with the DBRS Morningstar group of companies, which include DBRS, Inc., DBRS Limited a Designated Ratings Organization, DBRS Ratings GmbH, and DBRS Ratings Limited. DBRS, Inc. is registered with the U.S. Securities and Exchange Commission as a Nationally Recognized Statistical Rating Organization (NRSRO). DBRS Morningstar's companies are also registered with and governed by applicable regulatory body or bodies in other countries around the globe. In producing qualitative analysis on certain equity securities, we may use the publicly available credit rating and analysis issued by DBRS Morningstar. Because we use DBRS Morningstar's publicly available information, we do not believe there is an actual or potential conflict of interest that arises from such use. Conversely, we make available to DBRS Morningstar a company's economic moat and the underlying details for use in their determination of a credit rating issued at the company level. Information provided to DBRS Morningstar is information that we have already made publicly available; therefore, we do not believe DBRS Morningstar's use of such information creates an actual or a potential for a conflict of interests.

Item 11. Code of Ethics, Participation or Interest in Client Transactions and Personal Trading

Code of Ethics

We have in place a code of ethics pursuant to Rule 204A-1 under the Investment Advisers Act of 1940 ("Code of Ethics"). Our Code of Ethics strives to uphold the highest standards of moral and ethical conduct, including placing our clients' interest ahead of our own. Our Code of Ethics covers all our employees as well as other persons who have access to our non-public information (collectively "Access Persons"). Our Code of Ethics addresses such topics as professional and ethical responsibilities, compliance with securities laws, integrity of investment research, and the personal trading practices. Our Code of Ethics also addresses receipt and/or permissible use of material non-public information and other confidential information our Access Persons may be exposed and/or have access to given their position within Morningstar Research Services. The Code of Ethics is provided upon hire and at least annually thereafter and at each time, the Access Person must certify in writing that she or he has received, read, and understands the Code of Ethics and that they agree to or have complied with its contents.

A copy of our Code of Ethics is available to existing and prospective clients by sending written request to compliance@morningstar.com.

Interest in Client Transactions

We do not engage in principal transactions (transactions where we, acting in our own account or in an affiliated account, buy a security from or sell a security to a client's account) nor do we engage in agency cross transactions (transactions where we or our affiliate executes a transaction while acting as a broker for both our client and the other party in the transaction).

Interest in Securities that we may Recommend

Morningstar Research Services

Morningstar Research Services does not have a proprietary trading account and thus, as a firm, does not invest in any security that we may produce Investment Research Reports on or recommend under our Manager Due Diligence and Selection Services.

Morningstar Research Services' Affiliates

Morningstar Wealth has and maintains model portfolios and separately managed accounts that it makes available through Morningstar Investment Services' role as the sponsor of the Wealth Platform and through third-party financial institutions. Those model portfolios and separately managed accounts use open-end mutual funds,

exchange-traded funds, equity securities, or fixed-income securities. Investment decisions relating to the model portfolios and separately managed accounts are solely those of Morningstar Wealth. We may issue Investment Research Reports on or recommend to Institutional Clients one or more of the securities used in one or more of the model portfolios or separately managed accounts. If we become aware of investment decisions, it is after such decisions have been made by them and trade instructions been issued. Conflicts of interest resulting from this are mitigated through the review of personal trading account activities of both Morningstar's Investment Management group and Morningstar Research Services access persons by Morningstar's compliance department.

Morningstar Investment Management serves as an investment adviser to investment companies registered under the Investment Company Act of 1940. To mitigate the conflict of interest, Morningstar Research Services does not prepare/produce qualitative analysis on nor recommend as part of its Manager Due Diligence and Selection Services any investment company Morningstar Investment Management is an investment adviser to.

Morningstar, our parent company, is a publicly traded security (Ticker Symbol: MORN). We may produce Investment Research Reports on or recommend a Fund(s) that holds a position in Morningstar's publicly traded stock. We mitigate any actual or potential conflicts of interests by not having ownership in Morningstar as a factor or a requirement in our investment manager due diligence and/or fund selection process and not factoring in such holdings in Morningstar's publicly traded stock into our qualitative or quantitative analysis of equities and Funds.

Morningstar has and maintains accounts which they invest in accordance with investment strategies created and maintained by Morningstar Investment Management. Those investment strategies are deployed using equity securities. Morningstar Research Services may issue Investment Research Reports on one or more of the securities Morningstar may hold in those strategies. Investment decisions relating to those accounts are those Morningstar Investment Management, who is acting as Morningstar's discretionary investment adviser with respect to those investment strategies. If we become aware of such investment decisions, it is after such decisions have been made by Morningstar Investment Management and trade instructions being issued. Conflicts of interest resulting from this are mitigated through the review of personal trading account activities of both Morningstar Investment Management and Morningstar Research Services access persons by Morningstar's compliance department.

We may issue Investment Research Report(s) on Managed Investments(s) that uses an index created and maintained by Morningstar as the Managed Investment's tracking index. We mitigate any actual or potential conflicts of interests resulting from this through such measures as not producing qualitative analysis on such Managed Investments as well as imposing informational barriers (both technology and non-technology), having separate organizational reporting lines, and monitoring by the compliance department.

Morningstar has an investment management group that consists of various subsidiaries across the globe each being registered with and governed by the applicable regulatory body or bodies in that country ("Morningstar's Investment Management group"). We are not part of Morningstar's Investment Management group. We mitigate conflicts of interests between us and Morningstar's Investment Management group by such things as:

- Maintaining separate legal entities;
- Maintaining applicable regulatory supervision lines
- Maintaining physical separation (e.g., occupying separate floors or using barriers if on the same floor);
- Maintaining technology separation;
- Maintaining a committee structure (i.e., very limited unilateral decisions); and

- Monitoring personal trading activity of employees.

Personal Trading by Access Persons

Our Code of Ethics is designed to ensure that Access Persons and their immediate family's personal trading activities does not interfere with our clients' interests. While our Access Persons (and their immediate family) may maintain personal investment accounts; they are subject to certain restrictions. Most notably:

- equity analysts (and their immediate family) are prohibited from holding or transacting in a security that the analyst covers or any of that company's close competitors, and they (and their immediate family) cannot initiate a transaction on an equity security that they don't cover while such security is on our company-wide restricted list.
- While manager research analysts (and their immediate family) can invest in mutual funds and/or exchange-traded funds that the manager research analyst covers, they (and their immediate family) are prohibited from holding or transacting in a publicly traded security in a company that derives a substantial portion of its revenue from mutual funds and/or exchange-traded funds.

Our Code of Ethics includes policies designed to prevent Access Persons from trading based on material non-public information. Access Persons in possession of material non-public information may not trade in securities which are the subject of such information and may not tip such information to others. In certain instances, we employ information blocking devices such as restricted lists to prevent illegal insider trading. Morningstar's compliance department monitors the activities in the personal accounts of our Access Persons upon hire and thereafter. Access Persons are required to pre-clear initial public offering, initial digital coin offering, and private placement transactions with Morningstar's compliance department.

Item 12. Brokerage Practices

As primarily a provider of Investment Research Reports and non-discretionary Manager Due Diligence and Selection Services, we do not place trades in the market and thus do not select or recommend broker-dealers for client transactions.

Item 13. Review of Accounts

As primarily a provider of Investment Research Reports and non-discretionary Manager Due Diligence and Selection Services, we do not review accounts of our Institutional Client's clients.

As explained in Item 4, our Institutional Client's may engage us to perform periodic monitoring and when deemed necessary, provide updated recommendations.

Item 14. Client Referrals and Other Compensation

We may make direct or indirect payments to our Affiliated Clients for recommending our services as described in Item 4 above. If such payments occur, they will be done pursuant to Rule 206(4)-1 of the Investment Advisers Act of 1940. We have not entered into client referral arrangements with any non-affiliated person or financial institution.

Item 15. Custody

As primarily a provider of Investment Research Reports and non-discretionary Manager Due Diligence and Selection Services, we do not take custody of any assets or funds.

Item 16. Investment Discretion

As primarily a provider of Investment Research Reports and non-discretionary Manager Due Diligence and Selection Services, we do not provide discretionary portfolio management services.

Item 17. Voting Client Securities

As primarily a provider of Investment Research Reports and non-discretionary Manager Due Diligence and Selection Services, we do accept nor have any proxy voting authority.

Item 18. Financial Information

We are required to provide you with certain financial information or disclosures about our financial condition. We do not have any financial commitment that impairs our ability to meet our contractual commitments, nor have we've been the subject of any bankruptcy proceedings.