

Form ADV Part 2A



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March 1, 2021

This Brochure provides information about the qualifications and business practices of Nuveen Asset Management, LLC. If you have any questions about the contents of this Brochure, please contact us at (312) 917-7700 or (800) 257-8787. 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 Nuveen Asset Management, LLC also is available on the SEC's website at www.adviserinfo.sec.gov.

Material Changes

This Brochure dated March 1, 2021 includes updates since its last annual update on March 25, 2020 reflecting the merger and integration of its affiliate Symphony Asset Management, primarily in Items 5, 8, and 10. This update also contain additions, changes and elaborations, including to fees, policies, affiliates, strategies, risk factors, and enhancements and clarifications throughout.

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ITEM 4 ADVISORY BUSINESS

Nuveen Asset Management, LLC (“NAM”) provides investment advisory services to a broad range of individual and institutional clients, including open-end and closed-end investment companies registered under the Investment Company Act of 1940, as amended (the “1940 Act”) and other pooled investment vehicles (each, a “Fund” and collectively, “Funds”).

NAM also provides investment advisory services to institutional investors through separate account management under both direct advisory and sub-advisory mandates (“Institutional Separate Accounts”). In addition, NAM provides investment advisory services to clients through managed account programs (wrap fee and dual contract) sponsored by broker-dealers and other financial intermediaries (“Retail SMA Accounts”). Although most services are provided on a discretionary basis, NAM also provides certain services on a non-discretionary and model portfolio basis.

NAM is the successor to the direct portfolio management business of Nuveen Asset Management (now known as Nuveen Fund Advisors, LLC (“NFAL”). Although NAM was launched as a new firm on January 1, 2011, it succeeded a business established in 1989. NAM is a subsidiary of NFAL, which is a subsidiary of Nuveen, LLC (“Nuveen”). Nuveen is a subsidiary, and represents the Asset Management division, of Teachers Insurance and Annuity Association of America (also known as “TIAA”), a leading financial services provider. TIAA constitutes the ultimate principal owner of NAM. See Item 10.

Types of Advisory Services

General

NAM provides investment advisory or sub-advisory services to Funds, Institutional Separate Accounts and Retail SMA Accounts.

NAM’s investment advisory services are provided generally based on the strategy selected by the client, subject to agreed-upon account restrictions and guidelines. NAM provides its services in a broad array of fixed income, equity and other investment strategies, including in the broad categories of municipal bonds, taxable fixed income, global and international, value, growth and core equities, public real assets, asset allocation, quantitative/enhanced, responsible investing, alternative and customized strategies. Depending on the particular strategy, NAM invests in a variety of securities and other investments, including in certain cases derivatives, and employs different investment techniques. Certain strategies include an allocation to Funds, including Funds affiliated with NAM or its affiliates. Certain strategies include elements of other strategies, and may be customized to meet the individualized needs of NAM’s clients. For additional information on NAM’s main strategies and principal risk factors, please see Item 8.

NAM’s portfolio managers are generally responsible for the investment decisions with respect to the investment strategy selected by a client, including identification and selection of specific securities and investments to be purchased in light of current and anticipated economic and market conditions, taking into account guidelines, limitations and information relating to the client, legal restrictions and NAM internal strategy guidelines. NAM provides its services in single strategy accounts, and alone or together with certain affiliated advisers, in combined and multi-strategy accounts. To the extent permitted by applicable law, NAM also may appoint investment sub-advisers to provide advisory services to one or more Funds, or delegate a portion of its investment advisory duties to sub-advisers.

Typically, a client or NAM generally may terminate its agreement at any time by providing thirty (30) days written notice. For Institutional Separate Accounts, termination provisions vary by contract and for wrap accounts, termination provisions vary by wrap fee program. Fees paid in advance are refunded on a pro rata basis if the service is terminated within the payment period.

NAM manages multiple accounts with different investment objectives, guidelines and policies, and with different fee structures. For example, certain accounts are long-only while other accounts are long-short. Further, certain accounts pay performance fees. The management of these accounts

gives rise to potential conflicts of interest because NAM has an incentive to favor one account over another. See Item 6.

In periods of market volatility, NAM may be unable to invest new money contributed to an account, or proceeds from the sale of securities, as quickly as it might have been able to do under normal market conditions. Similarly, NAM may be unable to sell securities to raise cash, or to accommodate a terminating client's request to sell securities, as quickly, or at favorable prices, as it might have been able to do under normal market conditions. Depending on market movements, such delays could have an adverse impact on client accounts. In such periods of market volatility, NAM, when deemed advisable, also may deviate from its normal trading practices with respect to sequencing and allocation of transactions.

Institutional Separate Accounts

NAM provides advisory services to institutional clients including pension funds, profit sharing funds, charitable institutions, banks and thrift institutions, trust accounts, corporations, insurance companies, and public entities, including municipalities, states and related agencies. The fees and services for each such arrangement are individually negotiated, depending on factors such as asset class, pre-existing relationship, portfolio complexity, client type and account size or other special circumstances. See Item 5.

Retail SMA Accounts

NAM provides investment advisory services to Retail SMA Accounts through wrap fee and dual contract managed account programs. In traditional wrap fee programs, NAM provides its advisory services pursuant to an advisory agreement with the wrap fee program sponsor. Wrap fee programs typically include comprehensive custody, financial advisory and certain trading (provided by the program sponsor) and investment advisory services (provided by the manager) for a bundled fee payable to the sponsor ("wrap").

In a dual contract program, NAM provides its advisory services pursuant to an advisory agreement directly with the client. A client may separately arrange with one or more third parties for custody, financial advisory and certain trading services to be provided on a partially-bundled or unbundled basis. In a partially-bundled program, certain of such services (typically custody, financial advisory, and certain trading) are provided for a bundled fee arrangement. In an unbundled arrangement, such services are contracted, provided and paid for separately.

For Retail SMA Accounts, NAM is appointed to act as an investment adviser through a process generally administered or assisted by the program sponsor. Clients participating in a program, generally with assistance from the sponsor, may select NAM to provide investment advisory services for their account (or a portion thereof) for a particular strategy. NAM provides investment advisory services based upon the particular needs of the program client as reflected in information provided to NAM by the sponsor, and will generally make its representatives available for communication as reasonably requested by clients and/or sponsors. For certain Retail SMA Accounts, administrative support is provided by Nuveen Services, LLC ("Nuveen Services"), a NAM affiliate. See Item 10.

Clients are encouraged to consult their own financial advisors and legal and tax professionals on an initial and continuous basis in connection with selecting and engaging the services of an investment manager for a particular strategy and participating in a wrap, dual contract or other managed account program. In the course of providing services to Retail SMA Accounts who have financial advisors, NAM generally relies on information or directions communicated by the financial advisor acting with apparent authority on behalf of its client.

NAM seeks to commence management of an account as soon as practicable after review of the account documentation in good form, acceptance of its appointment as adviser and contribution of assets to the client's account. The time required to commence management varies depending on the time required to complete these steps, the efficiency of the program sponsor and/or other third parties, and the time required to establish an appropriate portfolio.

The timing required to fully invest an account depends on multiple factors, including the particular strategy and guidelines; market conditions; availability of desirable securities; the amount of cash versus legacy securities used to fund a new account; and if legacy securities are used, the characteristics of such legacy securities, among others. For some strategies, such as certain municipal bond strategies where the supply of appropriate bonds is limited, it may take ten weeks or longer to fully invest a client account. As a result of the foregoing, some accounts may become fully invested more quickly than other accounts, and in some cases a new account may become fully invested more quickly than an older account.

In most instances, NAM expects that clients will authorize and direct the custodian selected by the client to automatically invest all cash in a money market fund (unaffiliated with NAM or its affiliated advisers) selected by the client or its financial advisor.

NAM maintains procedures for executing specific transactions in a client's account for tax reasons. Under these procedures, NAM will generally follow the directions of a client or its financial advisor regarding harvesting tax losses or gains, subject to certain scope, amount and timing limitations. Generally, the directions entail a repurchase of the sold security after the "wash sale" (thirty (30) day) period (e.g., in the case of equities), or a purchase of another appropriate security (e.g., in the case of bonds). NAM generally relies in good faith on directions communicated by a financial advisor acting with apparent authority on behalf of its client.

In providing such directions, the client and its financial advisor are responsible for understanding the merits and consequences of their directions in light of the client's particular tax situation. Daily market fluctuations may affect the dollar amount of gain or loss with respect to certain investment decisions. The monetary benefit derived from tax loss selling, for example, may not exceed the risk of not being fully invested during that time. Executing tax sales (and repurchases) may adversely affect performance. NAM is not a tax advisor, and therefore clients should consult with their tax specialist to review their particular tax situation.

NAM may invest in exchange traded funds ("ETFs") or other pooled vehicles, including during the wash sale period. ETFs and other funds have certain imbedded costs, including management fees, of which the client account will bear a proportionate share while it is invested in the ETF or other fund.

NAM may provide or make available at no charge various reports or materials to certain managed account program sponsors and other financial intermediaries who typically use NAM services and products. These reports may analyze a prospective client's current holdings or show the effect of performance of a NAM composite over a particular time period in a manner directed by the sponsor or intermediary. Such reports are not intended to constitute investment advice, research or recommendations.

Certain Retail SMA Account programs impose policies and restrictions that limit the trading and investment options that would otherwise be available for Institutional Separate Accounts and Funds. As a result, Retail SMA Accounts may be excluded from potentially attractive trading and investment opportunities. Clients should consult with their financial advisors regarding the terms and features of their Retail SMA Account program.

Advisory Services to Funds

NAM also provides investment management services to a variety of Funds, including 1940 Act registered Funds (e.g., mutual funds, closed-end funds, ETFs) and non-1940 Act registered Funds. Non-1940 Act registered funds include, bank collective trusts, private funds (including collateralized debt obligation (CDO) and collateralized loan obligation (CLO) funds) and offshore funds. As discussed further in Item 11, NAM affiliates (including TIAA) may invest (e.g., seed capital) in certain Funds.

In connection with its advisory services to a Fund, NAM or its related persons providing services to such Fund generally receive advisory, administration, co-administration and/or distribution fees from the Fund and/or from investment advisers to the Fund. Clients should carefully review the

Funds' prospectuses or other offering documents for more detailed information regarding a Fund to which NAM provides investment services.

In the absence of a formalized advisory arrangement, investors in Funds advised or subadvised by NAM will not be advisory clients of NAM, and NAM will not provide investment advice or recommendations with respect to the merits and suitability of the particular investment and investment decision for the particular investor. Investors in Funds advised or subadvised by NAM are encouraged to consult their own financial, tax and legal advisors regarding such decisions. Nuveen Fund shares are available through many unaffiliated broker-dealers and other financial services firms.

Non-Discretionary Accounts and Model Portfolio Advice

For certain strategies, NAM provides certain non-discretionary or model portfolio investment services to clients that may include banks, broker-dealers and other financial services firms, and other investors. Such services may include asset allocation advice, equity and fixed income research and model portfolio recommendations for a variety of investment styles. Model portfolios may relate to the same strategies that are also offered or utilized through discretionary accounts.

The recommendations implicit in the model portfolios provided to the model recipient (e.g., sponsor, overlay manager or manager) may reflect recommendations being made by NAM contemporaneously to, or investment advisory decisions made contemporaneously for, similarly situated discretionary clients of NAM. As a result, NAM may have already commenced trading for its discretionary client accounts before the sponsor or overlay manager has received or had the opportunity to evaluate or act on NAM's recommendations. In this circumstance, trades ultimately placed by the sponsor or overlay manager for its clients may be subject to price movements, particularly with large orders or where the securities are thinly traded, that may result in model-based program clients receiving prices that are less favorable than the prices obtained by NAM for its discretionary client accounts. On the other hand, the model recipient may initiate trading based on NAM's recommendations before or at the same time NAM is also trading for its discretionary client accounts. Particularly with large orders or where the securities are thinly traded, this could result in NAM's discretionary clients receiving prices that are less favorable than prices that might otherwise have been obtained absent the sponsor or overlay manager's trading activity. Because NAM does not control the model recipient's execution of transactions for its client accounts, NAM cannot control the market impact of such transactions to the same extent that it would for its discretionary client accounts.

Where NAM participates in model-based managed accounts programs, the model-based program sponsor or overlay manager is generally responsible for investment decisions and performing many other services and functions typically handled by NAM in a traditional discretionary managed account program. Unless NAM has discretion, NAM does not consider itself to have an advisory relationship with clients of the sponsor or overlay manager of a model-based program. To the extent that this Form ADV Part 2A is delivered to program clients with whom NAM has no advisory relationship, or under circumstances where it is not legally required to be delivered, it is provided for informational purposes only. Furthermore, because a model-based program sponsor or overlay manager generally exercises investment discretion and, in many cases, brokerage discretion, performance and other information relating to NAM's services for which it exercises investment and/or brokerage discretion is generally provided for informational purposes only, and may not be representative of model-based program client results or experience. NAM is not responsible for overseeing the provision of services by a model-based program sponsor and cannot assure the quality of its services.

Retail SMA Program Multiple Strategy Accounts (MSAs)

NAM provides overlay and advisory services for clients in certain multiple investment strategy accounts ("MSA") in Retail SMA programs. An MSA is a single client account that consists of multiple underlying investment strategies where the specific strategies, the target allocation of such strategies and the advisers ("Subadvisers") to such strategies are generally determined by the program sponsor or agreed to by a Client as part of a packaged combination. MSAs generally include allocations to Subadvisers (primarily affiliated Subadvisers), but may also include Funds (including affiliated Funds), depending on the particular MSA strategy. In most cases, a Subadviser

manages a portion of the MSA in a particular strategy (a “sleeve”) on a discretionary basis. MSAs may include combinations of equity strategies (e.g., growth, value, core, large cap, mid cap, small cap, all cap, U.S., international, global, etc.), fixed income strategies (e.g., taxable, municipal bond, investment grade, high yield, etc.) and/or other asset classes), depending on the particular MSA strategy.

As overlay manager for MSAs, NAM generally provides non-discretionary or model-based investment advisory and administrative services. NAM’s overlay services for MSAs also entail new account administration, implementation and execution of investment directions for certain sleeves, tax loss selling, rebalancing according to the target allocation for certain MSA products, coordinating among Subadvisers for investment purposes and other overlay manager responsibilities. NAM has appointed an overlay portfolio manager or managers with responsibility for active oversight of the Retail SMA MSAs. Nuveen Services, LLC, a NAM affiliate, provides administrative support for MSAs. See Item 10.

In addition to serving as overlay manager, depending on the particular MSA and program, NAM also serves as a Subadviser for one or more sleeves in certain Municipal Fixed Income, Taxable Fixed Income, and/or Equity strategies. Please see the relevant items of this Brochure with respect to such strategies. For detailed information about another Subadviser, please refer to the Subadviser’s Form ADV; any description of a Subadviser’s services or practices contained herein is qualified in its entirety by the Subadviser’s Form ADV.

Certain MSA products may not include rebalancing services. In these arrangements, the value of a sleeve may vary over time, resulting in overall MSA allocations that can vary materially over time. Where NAM does not perform rebalancing of the MSA, a client (and the client’s financial advisor) should review its account and its sleeve allocations periodically. Clients should consult with their financial advisors regarding the terms and features of, and the services NAM provides to, their MSAs.

The material risk factors relating to the MSAs are described more fully in Item 8 under “Retail SMA Program Multiple Strategy Accounts (MSAs) Risks”.

Multi-Asset Class Investments

NAM provides investment services and strategies to Funds, defined benefit pension plans, foundations and endowments, insurance company separate accounts and general accounts, and other institutional investors or financial intermediaries, primarily in the areas of multi-asset class solutions, structured portfolio solutions including volatility management and option overlay. Depending on the mandate, services may include discretionary or non-discretionary portfolio management services; model portfolio creation and management; allocation services; analysis; research; modeling and scenario analysis; assisting in the development of or making recommendations regarding investment objectives, strategies, or metrics; and/or coordination among underlying investment strategies. These services are generally developed in close consultation with a client and/or its advisors, and, depending on the mandate, are provided on a discretionary, non-discretionary or consulting basis. Conflicts of interest may arise given the multiple potential services that NAM may collectively provide. See Item 8 and 10. NAM generally provides advisory services to account strategies that contemplate, with respect to all or a material portion of an account, an allocation to affiliated Funds, affiliated products and/or affiliated advisers, including NAM. This structure results in more aggregate revenue to NAM and its affiliates than would result from an allocation to unaffiliated Funds, products and/or advisers.

NAM offers a broad range of strategic and tactical allocation and related investment management and administrative services, which can vary widely depending on the particular arrangement. NAM will propose, select and/or invest in or through other Funds and/or Subadvisers, on a discretionary, non-discretionary and/or model portfolio basis. Allocations are generally to Funds, including Funds advised by advisers under common control with NAM (i.e., affiliated Funds), and/or through separate accounts advised by Subadvisers, including Subadvisers under common control with NAM (i.e., affiliated Subadvisers). NAM also may use unaffiliated strategies, including both Funds and separate accounts and/or Subadvisers and other securities and investments, depending on the arrangement. NAM generally provides advisory services to multi-asset class account strategies

that contemplate, with respect to all or a material portion of an account, an allocation to affiliated Funds, affiliated products and/or affiliated advisers, including NAM. This structure results in more aggregate revenue to NAM and its affiliates than would result from an allocation to unaffiliated Funds, products and/or advisers. Certain allocation strategies also include the use of derivatives. Some allocation strategies are diversified across numerous asset classes whereas others are concentrated in particular asset classes or market segments. In certain designated strategies, NAM may consider the impact of taxation and seek to create tax efficiencies. Allocation services can reflect a wide range of approaches, including, without limitation: an active (or tactical) approach with changes to allocations and portfolio composition in response to the views of NAM and factors such as changing market and economic conditions and sentiments; a less active (or strategic) approach with rebalancing to a fixed target allocation on a periodic basis or within bands of tolerance; or more limited services that may or may not include subsequent portfolio changes or rebalancing. Some services are more administrative in nature, and do not reflect the exercise of investment discretion.

Formalization and Scope of Advisory Services

NAM formalizes its advisory relationship with a client through certain protocols such as the execution of an investment advisory agreement with the client (e.g., for Retail SMA dual contract and institutional separate accounts) or the acceptance of new account documentation with respect to such client (e.g., for a discretionary wrap fee program client). NAM does not provide advice outside of the confines of a formal advisory arrangement. Communications made in the marketing and sales process (including requests for proposals, requests for information, portfolio reviews, general written materials on products, strategies, and services, educational materials, etc.) are not intended and should not be relied upon as advice or a recommendation. Prior to the formalization of an advisory relationship, prospective clients and existing clients (with respect to new or different services) should make any decisions regarding any specific course of action based on their own needs and circumstances and in consultation with their own independent advisors.

NAM's services are limited to the scope of a formalized arrangement with respect to specific services (e.g., discretionary investment management to a particular strategy). NAM does not provide any fiduciary services outside of such formalized arrangement. Any NAM communication outside the scope of a formalized arrangement to any prospect, client, financial advisor or other intermediary should not be relied upon as advice or a recommendation.

Different products, services and strategies provided by NAM (and offered or made available by advisors) have different features, terms and conditions, risks, and direct and indirect compensation and profitability, among other things. Therefore, NAM (and an advisor) may have differing incentives and interests in marketing, offering, providing or making available different products, services or strategies. Prospects and clients, with the advice of their independent advisors, should carefully determine and select the products, services and strategies that best meet their needs.

Investment Restrictions

Institutional Separate Accounts and Retail SMA Accounts

NAM's discretionary authority over an account is generally subject to directions, investment guidelines and limitations imposed by the client and, in the case of a Retail SMA Account, the program sponsor. NAM will endeavor to follow reasonable directions, investment guidelines and limitations. Although NAM seeks to provide individualized investment advice to its discretionary client accounts, NAM will not be able to accommodate investment restrictions that are unduly burdensome or materially incompatible with NAM's investment approach (including restrictions affecting more than a stated percentage of the account), and reserves the right to decline to accept, or to terminate, client accounts with such restrictions.

Funds and Other Pooled Investment Vehicles

When NAM exercises discretionary authority with respect to a Fund's assets, it seeks to do so in a manner that is consistent with the Fund's investment objectives, strategies and limitations as disclosed in the Fund's prospectus or other applicable disclosure documents. NAM's discretion is

also subject to the oversight of the Fund's governing body (e.g., board of directors) and also may be subject to the oversight of another investment adviser.

Wrap Fee Programs

The services provided by NAM to wrap fee program accounts may differ from the services provided to its Institutional Separate Accounts and other clients who do not participate in wrap fee programs. The investment strategies NAM uses in managing wrap fee program accounts are similar to those offered to its other clients, but may involve fewer securities holdings due to smaller account sizes, and less ability for customization. There may be limitations on the ability of Retail SMAs to invest in equity initial public offerings and non-U.S. ordinary securities. In many cases there are limitations on the ability of NAM in the ordinary course to communicate directly, on its own initiative, with program clients, without going through the program sponsor. Also, strategies, restrictions and guidelines may vary among programs.

In consideration for providing investment management services to wrap fee program accounts, NAM receives a portion of the wrap fee paid by wrap fee program participants to the program sponsor. For dual contract accounts, NAM generally receives its fees directly from the client.

In wrap programs that permit NAM to trade away from the wrap sponsor or its broker-dealer affiliate when NAM believes such sponsor or its affiliate cannot provide best price or execution under the circumstances, NAM will trade away from such parties. For municipal bond strategies, NAM generally trades away from the Retail SMA program sponsor all or substantially all of the time, and trades away certain other fixed income strategies (including preferred securities) depending on the particular type and characteristics of the security and marketplace conditions. Except when trading equities with a wrap fee sponsor in a wrap fee program, clients generally incur transaction and other costs and fees in addition to the wrap fee. These fees are generally in the form of mark-ups, mark-downs and spreads (and commissions in the case of certain exchange-traded preferred securities) earned by the relevant securities broker-dealer (not NAM or a Nuveen affiliate) in addition to the wrap fee payable to the wrap program sponsor. These fees are built into the price of the securities and generally are not shown separately in a trade confirmation or account statement. Wrap fee clients in certain international and global strategies will incur fees and costs associated with the purchase of non-U.S. securities in ordinary form and conversion of such ordinary shares into American Depositary Receipts ("ADRs") and other depositary receipts, in addition to the wrap fee payable to the wrap program sponsor.

Depending upon the level of the wrap fee charged by a wrap sponsor, the amount of portfolio activity in a client's account, the value of the custodial and other services that are provided under a wrap arrangement and other factors, a wrap fee client should consider whether the wrap fee would exceed the aggregate cost of such services if they were to be provided separately. Similarly, a non-wrap fee program client paying separate fees should consider whether the fees charged by different parties for custody, advisory services, portfolio management services, securities execution and other services would exceed the aggregate cost of such services if they were provided in a wrap fee arrangement. Some broker-dealers serving as custodian charge fees for settling transactions executed through other broker-dealers.

Retail SMA Account clients should review all materials relating to their program (including the program brochure) regarding the program's terms, conditions and fees, and consider the advantages, disadvantages and overall appropriateness of the program in light of the client's particular circumstances.

Assets Under Management

As of December 31, 2020, NAM's total assets under management (AUM) were approximately \$241.5 billion (comprised of approximately \$240.4 billion in discretionary assets and \$60.7 million billion in non-discretionary assets). Total AUM excludes assets subject to certain model portfolio and consulting services.

ITEM 5 FEES AND COMPENSATION

NAM's advisory fees are generally based on a percentage of assets under its management. For eligible client accounts, performance-based fees also may be negotiated in appropriate circumstances. Please see Item 6. NAM generally does not charge fixed fees except in special situations.

Fees and services may be negotiable based on factors such as client type, asset class, pre-existing relationship, portfolio complexity and account size or other special circumstances or requirements. Some existing clients pay higher or lower fees than new clients. Related accounts may be aggregated for fee calculation purposes in certain circumstances.

When NAM calculates fees, valuations of account assets are determined in accordance with NAM's valuation procedures, which generally rely on third party pricing services, but may permit the use of other valuation methodologies in certain circumstances. NAM's determinations may differ from valuations reflected in a client's custodial statements.

Advisory Fees for Institutional Separate Accounts

Advisory fees for Institutional Separate Accounts are generally determined based upon the following schedules. However, fees for certain strategies or accounts fall outside of the stated ranges, or are negotiated.

Assets Under Management	Annual Fee Schedule
Equity Strategies	
<u>Large Cap Core</u>	
First \$25 million	0.60%
Next \$25 million	0.50%
Next \$50 million	0.45%
Next \$150 million	0.40%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Large Cap Value</u>	
First \$25 million	0.60%
Next \$25 million	0.50%
Next \$50 million	0.45%
Next \$150 million	0.40%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Large Cap Growth</u>	
First \$25 million	0.60%
Next \$25 million	0.50%
Next \$50 million	0.45%
Next \$150 million	0.40%

Assets Under Management	Annual Fee Schedule
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Stable Growth</u>	
First \$25 million	0.60%
Next \$25 million	0.50%
Next \$50 million	0.45%
Next \$150 million	0.40%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Concentrated Core</u>	
First \$25 million	0.75%
Next \$25 million	0.65%
Next \$50 million	0.55%
Next \$150 million	0.50%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Equity Market Neutral</u>	
First \$100 million	1.10%
Next \$150 million	1.00%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$100 million
<u>Equity Long/Short</u>	
First \$100 million	1.10%
Next \$150 million	1.00%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$100 million
<u>Dividend Value</u>	
First \$25 million	0.60%
Next \$25 million	0.50%
Next \$50 million	0.45%
Next \$150 million	0.40%
Over \$250 million	Negotiated

Assets Under Management		Annual Fee Schedule	
New Client Minimum Account Size		\$5 million	
<u>Large Cap Growth Opportunities</u>			
First \$25 million		0.60%	
Next \$25 million		0.50%	
Next \$50 million		0.45%	
Next \$150 million		0.40%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$5 million	
<u>Large Cap Select</u>			
First \$25 million		0.60%	
Next \$25 million		0.50%	
Next \$50 million		0.45%	
Next \$150 million		0.40%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$5 million	
<u>Mid Cap Growth Opportunities</u>			
First \$25 million		0.75%	
Next \$25 million		0.65%	
Next \$50 million		0.55%	
Next \$150 million		0.50%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$5 million	
<u>Mid Cap Value</u>			
First \$25 million		0.75%	
Next \$25 million		0.65%	
Next \$50 million		0.55%	
Next \$150 million		0.50%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$5 million	
<u>Small Cap Growth Opportunities</u>			
First \$25 million		0.85%	
Next \$25 million		0.80%	

Assets Under Management	Annual Fee Schedule
Next \$50 million	0.70%
Next \$150 million	0.65%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Small Cap Select</u>	
First \$25 million	0.85%
Next \$25 million	0.80%
Next \$50 million	0.70%
Next \$150 million	0.65%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>Small Cap Value</u>	
First \$25 million	0.85%
Next \$25 million	0.80%
Next \$50 million	0.70%
Next \$150 million	0.65%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million
<u>International Growth</u>	
First \$25 million	0.75%
Next \$25 million	0.70%
Over \$50 million	0.65%
New Client Minimum Account Size	\$25 million
<u>International Equity (ADR)</u>	
All Assets	0.70%
New Client Minimum Account Size	\$1 million
<u>Emerging Markets (ADR)</u>	
All Assets	0.75%
New Client Minimum Account Size	\$1 million

Assets Under Management	Annual Fee Schedule
Public Real Assets Strategies	
<u>U.S. Real Estate Securities</u>	
First \$50 million	0.65%
Next \$50 million	0.60%
Next \$150 million	0.50%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$10 million
<u>Global Real Estate Securities</u>	
First \$50 million	0.70%
Next \$50 million	0.62%
Next \$150 million	0.52%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$20 million
<u>Real Asset Income</u>	
First \$50 million	0.80%
Next \$50 million	0.75%
Next \$150 million	0.65%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$50 million
<u>Global Infrastructure</u>	
First \$50 million	0.75%
Next \$50 million	0.70%
Next \$150 million	0.65%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$20 million
Taxable Fixed Income Strategies	
<u>Core and Intermediate Government/Credit</u>	
First \$50 million	0.25%
Next \$50 million	0.20%
Next \$150 million	0.15%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$10 million

Assets Under Management	Annual Fee Schedule
<u>Core Plus</u>	
First \$50 million	0.35%
Next \$50 million	0.30%
Next \$150 million	0.25%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$20 million
<u>Multi Sector</u>	
First \$50 million	0.40%
Next \$50 million	0.35%
Next \$150 million	0.30%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$20 million
<u>Short Duration</u>	
First \$50 million	0.20%
Next \$50 million	0.15%
Next \$150 million	0.10%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$10 million
<u>Long Duration</u>	
First \$50 million	0.30%
Next \$50 million	0.25%
Next \$150 million	0.20%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$10 million
<u>Inflation Protected</u>	
First \$50 million	0.15%
Next \$50 million	0.10%
Next \$150 million	0.08%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$10 million
<u>High Yield/Income</u>	
First \$50 million	0.50%

Assets Under Management		Annual Fee Schedule	
Next \$50 million		0.45%	
Next \$150 million		0.40%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$10 million	
<u>Preferred Securities and Income</u>			
First \$50 million		0.40%	
Next \$50 million		0.35%	
Next \$150 million		0.30%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$10 million	
Municipal Bond Fixed Income Strategies			
<u>Municipal Bond Investment Grade</u>			
First \$50 million		0.30%	
Next \$50 million		0.25%	
Next \$150 million		0.20%	
Over \$250 million		Negotiated	
New Client Minimum Account Size		\$10 million	
<u>Taxable Municipal Fixed Income</u>			
First \$100 million		0.45%	
Next \$100 million		0.40%	
Next \$300 million		0.35%	
Over \$500 million		0.30%	
New Client Minimum Account Size		\$50 million	
<u>Municipal Fixed Income</u>			
First \$100 million		0.45%	
Next \$100 million		0.40%	
Next \$300 million		0.35%	
Over \$500 million		0.30%	
New Client Minimum Account Size		\$50 million	
<u>Municipal Bond High Yield</u>			
All Assets		0.60%	
New Client Minimum Account Size		\$50 million	

Assets Under Management	Annual Fee Schedule
Managed Volatility	
First \$25 million	0.30%
Next \$75 million	0.25%
Next \$400 million	0.20%
Next \$1.5 billion	0.15%
Over \$ 2 billion	Negotiated
New Client Minimum Account Size	\$5 million
Index	
First \$25 million	0.15%
Next \$25 million	0.11%
Next \$50 million	0.09%
Next \$150 million	0.05%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$25 million
Enhanced Equity Index	
First \$50 million	0.30%
Next \$50 million	0.25%
Next \$150 million	0.20%
Over \$250 million	Negotiated
New Client Minimum Account Size	\$5 million

Advisory Fees for Institutional Separate Accounts in Leveraged Finance Strategies

Fees for leveraged finance strategies (Long-Short Credit, Corporate Arbitrage and Relative Value; and Long-Only Credit) are subject to negotiation based on factors including complexity. Generally, fees range from 1% to 2% per annum on accounts that employ short-selling, leverage, hedging, derivatives and/or similar investment methods, and 0.37% to 1% per annum for long only. A performance fee may also be applicable.

Advisory Fees for Retail Separate Accounts

Advisory fees for Retail Separate Accounts are generally determined based upon the following schedules. However, fees for certain strategies or accounts fall outside of the stated ranges, or are negotiated.

Assets Under Management	Annual Fee Schedule
Municipal Bond Investment Grade	
First \$2 million	0.40%
Next \$2 million	0.35%
Next \$6 million	0.30%

Over \$10 million	0.25%
New Client Minimum Account Size	\$250,000
<u>ESG Municipal Bond Investment Grade</u>	
First \$2 million	0.40%
Next \$2 million	0.35%
Next \$6 million	0.30%
Over \$10 million	0.25%
New Client Minimum Account Size	\$250,000
<u>Municipal Bond Total Return</u>	
All assets	0.32%
New Client Minimum Account Size	\$250,000
<u>Municipal Bond Ladder (1-7 Year; 1-10 Year; 1-15 Year; 5-15 Year; 10-25 Year; Customized)</u>	
All assets	0.12%
New Client Minimum Account Size	\$250,000
<u>Preferred Securities</u>	
First \$1 million	0.50%
Over \$1 million	0.45%
New Client Minimum Account Size	\$250,000
<u>Preferred Securities Select</u>	
First \$1 million	0.55%
Over \$1 million	0.50%
New Client Minimum Account Size	\$1 million
<u>Core Fixed Income</u>	
First \$25 million	0.30%
Next \$25 million	0.25%
Over \$50 million	Negotiated
New Client Minimum Account Size	\$25 million
<u>Taxable Bond Ladder</u>	
All assets	0.12%
New Client Minimum Account Size	\$250,000

<u>Custom Fixed Income Solutions</u>	
First \$5 million	0.35%
Next \$5 million	0.30%
Over \$10 million	0.25%
New Client Minimum Account Size	\$1 million
<u>Tax-Aware Fixed Income</u>	
First \$2 million	0.50%
Next \$2 million	0.40%
Next \$6 million	0.30%
Over \$10 million	0.25%
New Client Minimum Account Size	\$250,000
<u>International Equity (ADR)</u>	
All Assets	0.70%
New Client Minimum Account Size	\$100,000
<u>Small Cap</u>	
All Assets	0.75%
New Client Minimum Account Size	\$100,000
<u>Emerging Markets (ADR)</u>	
All Assets	0.75%
New Client Minimum Account Size	\$100,000

Breakpoints are generally applied on a blended basis. NAM may impose minimum annual fees for Institutional Separate Accounts as negotiated. Minimum account sizes can be waived in NAM's discretion.

Advisory Fees for Retail SMA Accounts Offered through Wrap Fee and Dual Contract Programs

For Retail SMA Accounts offered through wrap fee programs, NAM's fee is determined by agreement between the sponsor and NAM, and may be up to 0.50%. Total annual fees charged by wrap sponsors, which include NAM's fee, are generally up to 1.25% (in the case of fixed income) and 3.00% (in the case of equity) annually of the client's assets in the wrap program. For dual contract accounts, NAM and sponsors each charge their fees separately. Fees charged to dual contract accounts are individually contracted between NAM and the client.

Advisory Fees for Funds

Fees for advisory services provided to Funds are separately negotiated between NAM and the third-party or affiliated investment adviser and/or Fund. Fees may be based on a percentage of assets under management and/or performance-based.

Advisory Fees for Multi-Asset Class Services

Fees for Multi-Asset Class services are negotiated.

Advisory Fees for Non-Discretionary Accounts and Model Portfolio Advice

These services are furnished for a negotiated fee paid by the purchaser.

Additional Fee Calculation Information

NAM's fees are generally payable quarterly or at such other times as agreed upon by the parties involved based upon the market value of assets in the account on the date of valuation, the average of the market value of the assets in the account during the billing period, or the calendar quarter-end market value. For Institutional Separate Accounts and dual contract Retail SMA Accounts, payment arrangements, including the timing (in advance or in arrears) and billing procedures (which may include sending an invoice and/or deduction of fees), will be agreed upon by NAM and the client. In the case of wrap fee Retail SMA Accounts and certain dual contract Retail SMA Accounts, payment methods generally will be determined by the program sponsor. Wrap program sponsors typically collect the total wrap fee and remit NAM's fee to NAM. Certain dual contract program sponsors collect and remit NAM's fee to NAM separately.

As indicated above, when NAM calculates fees, valuations of account assets are determined in accordance with NAM's valuation procedures, which generally rely on third party pricing services, but may permit the use of other valuation methodologies in certain circumstances. NAM's determinations may differ from valuations reflected in a client's custodial statements. See also Item 15. Further, when NAM calculates fees, certain securities or investments may be valued differently based on factors such as the type of account (Retail SMA Account, Institutional Separate Account, etc.), operational systems and/or client instructions.

Generally, if an account is opened or closed during a billing period, the advisory fees are prorated for that portion of the billing period during which the account was open.

Accounts of NAM's employees, affiliate employees, former employees or their family members may be managed by NAM without an advisory fee.

See also Item 15.

Other Fees and Expenses

On behalf of its Institutional Separate Account, Retail SMA Account and certain Fund clients, NAM may invest in closed-end funds, open-end funds, ETFs, exchange traded notes ("ETNs") and other pooled investment vehicles. When NAM invests client assets in such securities, unless otherwise agreed and where permitted by law, the client will bear its proportionate share of fees and expenses as an investor in the fund or vehicle in addition to NAM's investment advisory fees.

Additionally, NAM may invest client assets or recommend that clients invest in shares or other interests in certain Funds advised by NAM or its affiliates. To the extent that NAM invests client assets in an affiliated Fund, NAM may, depending on the arrangement with the program sponsor or Institutional Separate Account client and any legal requirements, waive investment advisory fees on the assets invested in such affiliated Fund, credit the account for the fees paid by the affiliated Fund to NAM's related persons, avoid or limit the payment of duplicative fees to NAM and its related persons through other means, or charge fees both at the affiliated Fund level and separate account level.

NAM's clients generally will incur brokerage and other transaction costs either separately or through a bundled fee. In wrap programs that permit NAM to trade away from the wrap sponsor or its broker-dealer affiliate when NAM believes such sponsor or its affiliate cannot provide best price or execution under the circumstances, NAM will generally trade away from such parties. Except when trading equities with a wrap fee sponsor in a wrap fee program, clients generally incur transaction and other costs and fees in addition to the wrap fee. Program clients should review all materials available from a third party sponsor concerning the program, sponsor and the program's terms, conditions and fees. Additional information about NAM's brokerage practices and brokerage costs can be found under Item 12.

Clients in certain international and global strategies will incur fees and costs associated with the purchase of non-U.S. securities in ordinary form and conversion of such ordinary shares into ADRs. To the extent that NAM purchases non-U.S. ordinary shares and arranges for such shares to be converted into ADRs, client accounts will incur certain fees and costs associated with the conversion. Such fees and costs may be attributable to local broker fees, stamp fees, and local taxes, and are generally included in the net price of the ADR.

From time to time, a client may instruct NAM to suspend investment management services for their accounts for a period of time. Such accounts will generally be unmanaged by NAM during such time. NAM generally charges standard fees for all or a portion of such time to reflect the administrative costs associated with implementing such instructions.

Termination provisions vary by contract. Typically, a client or NAM may terminate its agreement at any time by providing thirty (30) days written notice. To the extent a client's investment management agreement for an Institutional Separate Account or dual contract Retail SMA Account provides that NAM's fees are to be paid in advance, the unearned portion of such fees will be refunded to the client upon termination of the service. For wrap fee program agreements that provide that NAM's fees are to be paid in advance, NAM will refund any prepaid but unearned fees to the program sponsor. The sponsor is then responsible for refunding fees, as applicable, to the client upon termination of the service. The refunded amount will be determined on a pro rata basis if the service is terminated within the payment period. For wrap accounts, termination provisions vary by wrap program.

For certain strategies, it is expected that an account will include an allocation by NAM to itself, affiliated Funds, affiliated products and/or affiliated advisers, with respect to all or a material portion of an account. This structure results in more aggregate revenue to NAM and its affiliates than would result from an allocation to unaffiliated Funds, products and/or advisers. Clients should consult their own independent professional advisor(s) to determine whether such arrangement is appropriate and in their continuing best interests.

NAM supervised persons and related sales personnel typically market NAM's investment capabilities to various prospects and intermediaries. NAM's investment capabilities are available directly through provision of investment advisory services (through Institutional Separate Accounts and Retail SMA Accounts), or indirectly by investment in Nuveen Funds advised or subadvised by NAM. Certain NAM supervised persons and related sales personnel will be internally compensated for successful marketing or selling activities with respect to NAM or its affiliates' investment advisory services. Prospective clients are encouraged to consult their own financial, tax and legal advisors regarding any investment decision regarding NAM's investment advisory services.

Certain NAM supervised persons and related sales personnel are also associated with NAM's affiliated broker-dealer, Nuveen Securities, LLC ("Nuveen Securities"), and in that capacity engage in marketing or selling activities with respect to shares or interests in Nuveen Funds advised or subadvised by NAM or its affiliates. See Item 10. Certain NAM supervised persons and related sales personnel will be internally compensated for successful marketing or selling activities with respect to shares or interests in Nuveen Funds advised or subadvised by NAM or its affiliates.

ITEM 6 PERFORMANCE-BASED FEES AND SIDE-BY-SIDE MANAGEMENT

NAM offers investment advisory services to multiple accounts with different investment objectives, guidelines and policies, and with different fee structures.

NAM may receive both asset-based fees and performance-based fees as compensation for its advisory services. Performance-based fees may create an incentive for NAM to make investments that are riskier or more speculative than would be the case in the absence of a performance-based fee. In these instances, NAM's compensation may be greater than it would otherwise have been, as the fee will be based on account performance instead of, or in addition to, a percentage of assets under management. NAM's compliance department reviews accounts with performance-based fees to detect evidence or patterns of preferential treatment relative to comparable accounts without performance-based fees.

ITEM 7 TYPES OF CLIENTS

NAM provides investment advisory and sub-advisory services to a broad range of individual and institutional clients, including investment companies and pooled investment vehicles, pension plans, charitable organizations, state or municipal government entities, insurance companies and corporate entities. Prior to investing in any Fund, an investor should review the relevant offering materials for important information concerning the objectives, policies, strategies, risks, fees and other important information.

Institutional Separate Accounts

For Institutional Separate Accounts, NAM generally requires a minimum account size generally ranging from \$5 to \$50 million depending on the strategy. Please see the fee schedule in Item 5 above for specific minimum investment amounts. NAM may waive these minimums based on client type, asset class, pre-existing relationship with client and other factors. For certain accounts, a negotiated minimum annual fee applies.

Retail SMA Accounts

For Retail SMA Accounts, NAM typically requires a minimum account of \$100,000 for equity and asset allocation strategies and \$250,000 for fixed income strategies, although the specific minimum account size varies by program. NAM may waive these minimums based on client type, asset class, pre-existing relationship with client and other factors. For certain accounts, a negotiated minimum annual fee applies.

ITEM 8 METHODS OF ANALYSIS, INVESTMENT STRATEGIES AND RISK OF LOSS

NAM provides its services in a broad array of fixed income, equity and other investment strategies, including in the broad categories of municipal bonds, taxable fixed income, global and international, value, growth and core, public real assets, asset allocation, quantitative/enhanced, responsible investing, alternative and customized strategies. Depending on the particular strategy, NAM invests in a variety of securities and other investments, including in certain cases derivatives, and employs various methods of analysis and investment techniques. Certain strategies include an allocation to funds that may be affiliated with NAM or its affiliates. Certain strategies include elements of other strategies, and are customized to meet the individualized needs of NAM's clients.

Nuveen, the asset management division of TIAA, has adopted certain principles on responsible investing at the enterprise level. NAM generally endeavors to consider environmental, social and governance (ESG) factors as part of investment research and portfolio construction. NAM does not undertake to apply specific requirements in this regard, and the degree to which ESG factors are integrated largely depends on the particular portfolio management team, strategy and account-level guidelines and requirements, and may vary materially. Unless a strategy expressly undertakes to employ ESG, green, or other responsible investing factors, NAM will not necessarily include in or exclude from portfolios certain securities, industries or sectors based solely on such criteria.

General descriptions of NAM's investment strategies are included below. These descriptions are not intended to serve as applicable account guidelines. Except in limited instances (e.g., certain allocation or multi-asset class strategies), NAM's strategies are not generally intended to provide a complete investment program for a client, and clients are responsible for appropriately diversifying their assets as appropriate.

NAM reserves the right to limit the availability of any particular strategy at any given time based on factors including asset class capacity, pre-existing relationships, minimum account sizes, fees and available distribution channels. In addition, NAM develops other investment strategies from time to time and manages portfolios according to a client's specific investment guidelines, and thus, strategies may vary by client account. Certain strategies are available only in certain channels or through investing in Funds. For Funds, the descriptions of the investment strategies below are qualified in their entirety by the information included in a Fund's prospectus or other official offering documentation. Prior to investing in any Fund, an investor should review the relevant prospectus or offering memorandum for important information.

STRATEGIES

Equity

Large Cap portfolios are invested primarily in common stocks of large-capitalization U.S. and/or non-U.S. companies, including emerging markets issuers. Large Cap portfolios may reflect growth, value or core (investing in both growth and value stocks) investment approaches.

Mid Cap portfolios are invested primarily in common stocks of mid-capitalization U.S. and/or non-U.S. companies, including emerging markets issuers. Mid Cap portfolios may reflect growth, value or core (investing in both growth and value stocks) investment approaches.

Small Cap portfolios are invested primarily in common stocks of small-capitalization U.S. and/or non-U.S. companies, including emerging markets issuers. Small Cap portfolios may reflect growth, value or core (investing in both growth and value stocks) investment approaches.

All Cap or Multi-Cap portfolios are primarily invested in equity securities of U.S. and/or non-U.S. companies, including emerging markets issuers, of any market capitalization.

Dividend-oriented portfolios are invested primarily in equity securities of U.S. and/or non-U.S. companies, including emerging markets issuers, with an emphasis on dividends. Dividend-oriented portfolios may reflect growth, value or core (investing in both growth and value stocks), and/or U.S., global and international, investment approaches.

Options Overlay (also known as Covered Call strategy) employs, to varying degrees, option overwrite strategies that seek to enhance risk-adjusted performance over time of an equity portfolio.

Index portfolios generally invest a substantial amount of their assets in common stocks included in a particular broad-based securities index, such as a large cap, mid cap or small cap index. A portfolio generally does not hold all of the stocks included in a particular index, or hold them in the same weighting as the index.

Enhanced Equity Index/Large Cap Core Quantitative portfolios follow an actively managed strategy that uses a proprietary quantitative process to invest in common stocks.

International Equity portfolios invest primarily in non-U.S. issuers that trade in U.S. or non-U.S. markets (including emerging markets). International portfolios may reflect growth, value and core investment approaches. Certain strategies gain international investment exposure by investing in ADRs, Global Depositary Receipts ("GDRs") and similar depositary receipts. ADRs are the receipts for the shares of a non-U.S.-based company traded on U.S. exchanges. Accounts of large institutional clients may hold ordinary non-U.S. securities (sometimes referred to as "ORDs") directly (instead of or in addition to ADRs). GDRs typically are issued by non-U.S. banks or financial

institutions and represent an interest in underlying securities issued by either a U.S. or a non-U.S. entity and deposited with the non-U.S. bank or financial institution.

Emerging Markets is an emerging market-focused investment strategy. This strategy seeks long-term capital appreciation by investing in high-quality, growth-oriented emerging market companies, diversified by country, sector and market cap. Certain strategies gain investment exposure by investing in ADRs, GDRs and similar depositary receipts. ADRs are the receipts for the shares of a non-U.S.-based company traded on U.S. exchanges. Accounts of large institutional clients may hold ordinary non-U.S. securities (sometimes referred to as “ORDs”) directly (instead of or in addition to ADRs). GDRs typically are issued by non-U.S. banks or financial institutions and represent an interest in underlying securities issued by either a U.S. or a non-U.S. entity and deposited with the non-U.S. bank or financial institution.

Global portfolios invest primarily in U.S. and non-U.S. issuers (that trade in U.S. or non-U.S. markets) (including emerging markets). Global portfolios may reflect growth, value and core investment approaches. Certain strategies gain international investment exposure by investing in ADRs, GDRs and similar depositary receipts. ADRs are the receipts for the shares of a non-U.S.-based company traded on U.S. exchanges. Accounts of large institutional clients may hold ORDs directly (instead of or in addition to ADRs). GDRs typically are issued by non-U.S. banks or financial institutions and represent an interest in underlying securities issued by either a U.S. or a non-U.S. entity and deposited with the non-U.S. bank or financial institution.

Concentrated portfolios invest in a relatively small number of securities compared with non-concentrated portfolios, thus providing greater exposure to each such security. Concentrated portfolios may relate to different asset classes (e.g., equities, preferred securities, etc.) and focus on companies of a particular capitalization (e.g., large cap, mid cap, small cap) and reflect growth, value or core (investing in both growth and value stocks) investment approaches.

Long/Short and Market Neutral portfolios establish long and short positions, typically in stocks of U.S. companies, with an objective of long-term capital appreciation. Certain long/short portfolios seek absolute returns independent of market direction (market neutral) and are not intended to outperform stocks and bonds during strong market rallies.

Additional Information about Equity Strategies. Equity securities in which the portfolios invest may include common and preferred stocks, publicly-traded units of master limited partnerships (“MLPs”), real estate investment trusts (“REITs”), ETFs and other investment companies, convertible preferred stocks and debt securities that are convertible into common stocks. Each of the equity portfolios may pursue other strategies or invest in other instruments described in this Brochure.

Certain of the above equity securities portfolios may use derivatives, including options, futures contracts, options on futures contracts, and forward non-U.S. currency contracts, to manage various types of risk, enhance a portfolio’s return, equitize cash or hedge against adverse movements in currency exchange rates. In addition, certain portfolios may use derivatives such as swaps, including interest rate swaps, total return swaps, credit default swaps and non-U.S. currency swaps, as well as other derivatives, to hedge the risk of investment in securities, substitute for a position in an underlying security, reduce transaction costs, maintain full market exposure, manage cash flows and preserve capital. Certain portfolios may also use derivatives, such as participatory notes and equity-linked securities, to gain exposure to equity and other securities of certain issuers. In addition, certain portfolios may write (sell) covered call options or buy put options on an index, or on some or all of the stocks or other securities they invest in, as well as using call spreads or other types of options to generate premium income and reduce volatility on a portfolio’s return, with the intent of improving a portfolio’s risk adjusted return. Certain portfolios may invest in stock index futures contracts, options on stock indices, and options on stock index futures to maintain the liquidity needed to meet redemption requests, to increase the level of portfolio assets devoted to replicating an index, and to reduce transaction costs. In addition, certain portfolios may utilize forward contracts to enhance returns. The portfolios may also be invested in warrants and securities convertible or exchangeable for equity securities such as convertible bonds.

A portion of a portfolio's assets may be invested in non-dollar denominated equity securities of non-U.S. issuers. In addition, a portion of a portfolio's assets may be invested in dollar-denominated equity securities of non-U.S. issuers that are either listed on a U.S. stock exchange or represented by depositary receipts that may or may not be sponsored by a domestic bank. Certain portfolios may invest primarily in ADRs and other depositary receipts.

Additionally, NAM may offer balanced strategies that combine equity and fixed income strategies described herein. Certain portfolios may invest in equity securities of companies of various market capitalizations, as determined by the investment adviser; certain portfolios may also pursue a strategy that focuses on undervalued companies.

Certain portfolios may invest a portion of their assets in preferred securities as well as debt and other fixed income securities. These debt securities may be rated below investment grade ("high yield"). Additionally, certain portfolios may invest in securities that are not readily marketable (*i.e.*, illiquid).

Public Real Assets

Real Estate Securities portfolios are invested primarily in income-producing securities of U.S. companies in the real estate industry. A majority of the portfolio's total assets will be invested in real estate investment trusts ("REITs").

Global Real Estate Securities portfolios invest primarily in common stocks, preferred securities and other equity securities issued by U.S. and non-U.S. companies in the real estate industry, including REITs and similar REIT-like entities.

Real Asset Income portfolios invest primarily in income-producing infrastructure and real estate related securities (*i.e.*, real assets) across the capital structure. Securities may include U.S. and non-U.S. (including emerging markets) equities and debt (including below investment grade debt).

Global Infrastructure portfolios are invested primarily in U.S. and non-U.S. (including emerging markets) equity securities of infrastructure-related companies. Infrastructure-related companies include companies involved in the ownership, development, construction, renovation, financing or operation of infrastructure assets, or that provide the services and raw materials necessary for the construction and maintenance of infrastructure assets. Infrastructure assets are the physical structures and networks upon which the operation, growth and development of a community depends, which includes water, sewer, and energy utilities; transportation and communication networks; health care facilities, government accommodations and other public service facilities; and shipping, timber, steel, alternative energy, and other resources and services necessary for the construction and maintenance of these physical structures and networks.

Fixed Income

Municipal Fixed Income portfolios invest primarily in municipal bonds. There are a number of different strategies of varying maturity, duration and quality.

For Retail SMA municipal fixed income accounts, the following descriptions typically apply to accounts under normal market conditions:

	Limited Maturity Municipal Bond	Intermediate Term Municipal Bond	Intermediate Term ESG Municipal Bond	Long Term Municipal Bond	Municipal Bond Total Return
Average Duration Range	+/- 20% of benchmark	+/- 20% of benchmark	+/- 20% of benchmark	+/- 40% of benchmark	+/- 40% of benchmark
Average Duration Target	2 – 5 years	5 – 6.5 years	4 – 7 years	7 – 11 years	5 – 9 years
Maturity Range	1 – 10 years	1 – 20 years for Intermediate Term; 1-16 years for High Quality Intermediate Term	1 – 20 years	10 – 30+ years	1 – 30+ years
Average Maturity Target	3 – 7 years	7 – 10 years	5 – 12 years	17 – 22 years	10 – 20 years
Quality Range	BBB- to AAA	BBB- to AAA for Intermediate Term; A- to AAA for Intermediate Term High Quality	A- to AAA	A- to AAA	BBB- to AAA with respect to individual bond portion of account
Average Quality Target	AA	AA	AA	AA	A with respect to entire portfolio (blend of fund and individual bond portion of account)

Certain average targets vary based on market conditions. For example, when interest rates are lower, longer term bonds may be priced to their call dates, which could lower the average duration of such bonds (e.g., to 5-6 years) and restrict the ability to target a longer duration (e.g., 7-11 years).

For Retail SMA Accounts within the Intermediate Term strategy category, Intermediate Term securities are generally rated BBB- or better at time of purchase, and Intermediate Term High Quality securities are generally rated A- or better at time of purchase.

A rating includes the rating given plus or minus. For municipal bond strategies, NAM generally relies on the applicable rating(s) of S&P and/or Moody's for retail SMA; and of S&P, Moody's and/or Fitch for Institutional Separate accounts, as applicable. For municipal bond strategies, split rated securities (i.e., rated differently by different applicable rating agencies) are generally deemed to receive the higher rating. A portion of a portfolio's assets may also be invested in municipal securities that are unrated, but that NAM deems to be of comparable quality to a particular rating.

Certain portfolios that invest primarily in investment grade securities also invest a portion of their assets in below-investment grade securities (including high yield securities).

For Retail SMA Accounts, state-specific, state-preference and national-preference (sometimes referred to as "national with secondary state") portfolios may be available, depending on the particular state, as well as national portfolios. State-specific portfolios generally hold bonds only from the client's state of residence or U.S. territories (e.g., Puerto Rico, U.S. Virgin Islands and Guam). State-preference portfolios hold bonds from the client's state of residence or U.S. territories, which together will generally account for a particular minimum of the portfolio (e.g., 50%) and out-of-state bonds will comprise the balance of the portfolio. A national preference portfolio is

a national portfolio with a secondary preference to the client's state of residence according to supply, relative value and strategic guidelines. The secondary preference of a national preference portfolio will be filled opportunistically over time, if at all, with no assurance of the inclusion of any state of residence bonds. Prospective clients and their financial advisors should consider the advantages and disadvantages of municipal bond portfolios that are limited (exclusively or materially) to bonds of a certain state (and U.S. territories) (e.g., state-specific and state-preference) compared with portfolios that can invest in a broader universe of bonds. A broader universe of bonds generally provides a higher yield, increased diversification, less concentration, less state/U.S. territory-specific political and economic risk and a shorter invest-up period than portfolios subject to state-based limitations.

The municipal securities in which state-specific Municipal Fixed Income portfolios may invest include municipal bonds and notes, including general obligation and "revenue" bonds, as well as other securities issued to finance and refinance public projects of a state, other related securities and derivatives creating exposure to municipal bonds, and municipal lease obligations, which are participations in lease obligations or installment purchase contract obligations of municipal authorities or entities.

For retail SMA Municipal Ladder strategies, the following descriptions typically apply under normal market conditions:

	1-7 Year Municipal Ladder	1-10 Year Municipal Ladder	1-15 Year Municipal Ladder	5-15 Year Municipal Ladder	10-25 Year Municipal Ladder	Customized Ladder
Maturity Ranges	1-7 years	1-10 years	1-15 years	5-15 years	10-25 years	custom
Credit Range	AAA to A	AAA to A	AAA to A	AAA to A	AAA to A	custom
Average Quality Target	AA	AA	AA	AA	AA	custom

For municipal ladder strategies, NAM will purchase individual bonds with differing maturities across the specified strategy maturity range. The bonds will typically be held to maturity in the absence of material credit events, contributions/withdrawals, calls and, for certain ladder strategies, sales pursuant to maturity parameters. The maturity range is typically segmented into 1-2 year ranges ("rungs") in which NAM will purchase bonds creating a "ladder" of individual bonds. Cash is typically generated in an account when bonds mature, are called, and for certain ladder strategies, are sold pursuant to maturity parameters. As cash is generated, NAM will generally purchase additional bonds in the longest available rung within the strategy's bond maturity range. Municipal ladder strategies may be customized for different maturity ranges as agreed upon with clients. The ladder strategy utilizes NAM's credit research and trading capabilities with respect to the selection and purchase (or sale) of individual bonds and ongoing monitoring, but as a laddered portfolio, does not include NAM's opportunistic and more active trading approach found in certain other NAM municipal bond strategies.

The foregoing discussion describes general features of Retail SMA Accounts but is not intended to serve as applicable account guidelines, which may vary materially by account and SMA program. A portion of certain Institutional Separate Accounts and Funds invest in inverse floating rate securities (sometimes referred to as "inverse floaters") issued in tender option bond ("TOB") transactions. In a TOB transaction, one or more highly-rated municipal bonds are deposited into a special purpose trust that issues floating rate securities ("*floaters*") to outside parties and inverse floaters to long-term investors like a Fund or Institutional Separate Account. The floaters pay interest at a rate that is reset periodically (generally weekly) to reflect current short-term tax-exempt interest rates. Holders of the floaters have the right to tender such securities back to the TOB trust

for par plus accrued interest (the “*put option*”), typically on seven days’ notice. Holders of the floaters are paid from the proceeds of a successful remarketing of the floaters or by a liquidity provider in the event of a failed remarketing. The inverse floaters pay interest at a rate equal to (a) the interest accrued on the underlying bonds, minus (b) the sum of the interest payable on the floaters and fees payable in connection with the TOB. Thus, the interest payments on the inverse floaters will vary inversely with the short term rates paid on the floaters. Holders of the inverse floaters typically have the right to simultaneously (a) cause the holders of the floaters to tender those floaters to the TOB trust at par plus accrued interest and (b) purchase the municipal bonds from the TOB trust. Because holders of the floaters have the right to tender their securities to the TOB trust at par plus accrued interest, holders of the inverse floaters are exposed to all of the gains or losses on the underlying municipal bonds, despite the fact that their net cash investment is significantly less than the value of those bonds. This multiplies the positive or negative impact of the underlying bonds’ price movements on the value of the inverse floaters, thereby creating effective leverage. The effective leverage created by any TOB transaction depends on the value of the securities deposited in the TOB trust relative to the value of the floaters it issues. The higher the percentage of the TOB trust’s total value represented by the floaters, the greater the effective leverage. For example, if municipal bonds worth \$100 are deposited in a TOB trust and the TOB trust issues floaters worth \$75 and inverse floaters worth \$25, the TOB trust will have a leverage ratio of 3:1 and the inverse floaters will exhibit price movements at a rate that is four times that of the underlying bonds deposited into the trust. If that same TOB trust were to issue only \$50 of floaters, the leverage ratio would be 1:1 and the inverse floaters would exhibit price movements at a rate that is only two times that of the underlying bonds.

Municipal Fixed Income portfolios may invest in municipal securities that are secured by insurance (including, in certain portfolios, insurance that guarantees the timely payment of principal and interest), bank credit agreements, or escrow accounts. A certain portion of Municipal Fixed Income portfolios’ assets may be invested in taxable bonds.

Inflation-protected municipal bond portfolios seek a current yield that compensates an investor for current inflation expectations, and also seek to mitigate the effect that subsequent increases in inflation may have on the purchasing power of the account by investing in inflation-linked instruments, such as Consumer Price Index (“CPI”) swaps, in amounts sufficient to approximate the duration characteristics of the account’s underlying municipal bond portfolio.

Primarily for Institutional Separate Accounts and Funds, certain Municipal Fixed Income portfolios also utilize investment strategies designed to limit the risk of bond price fluctuations and to preserve capital. These strategies include the use of derivatives, such as financial futures contracts, swap contracts (including interest rate and credit default swaps), options on financial futures, options on swap contracts, or other derivatives whose prices, in an investment adviser’s opinion, correlate with the prices of the portfolios’ investments. A portfolio may also use derivatives strategies to shorten or lengthen the effective duration, and therefore the interest rate risk, of a portfolio, and to adjust other aspects of the portfolio’s risk/return profile. A portfolio may use derivatives if it is deemed more efficient from a transaction cost, total return or income standpoint than selling and/or investing in cash securities. A portfolio may also use derivatives to enhance return, hedge the risks of its investments in fixed income securities or as a substitute for a position in an underlying asset. Additionally, a portfolio may use derivatives to manage market, credit and yield curve risk, and to manage the effective maturity or duration of portfolio securities. The portion of a Municipal Fixed Income portfolio that is invested in derivatives at times may be substantial.

Certain investors select municipal bond strategies for interest that is exempt from U.S. federal income tax, and in some cases, state and/or local income tax. Changes in tax laws, adverse interpretations by the Internal Revenue Service or state tax authorities, or noncompliant conduct of a bond issuer, among other events, could lead to declines in the value of municipal bonds and other unfavorable results. Clients are encouraged to consult their own financial, tax and legal advisors regarding the suitability of investing in municipal bond strategies.

Certain accounts invest in lower quality municipal bonds, including high yield bonds.

Municipal Fixed Income portfolios may pursue other strategies or invest in other instruments described in this Brochure.

Taxable Fixed Income portfolios invest primarily in debt securities according to the following strategies:

Short Term Fixed Income portfolios invest primarily in short term debt securities, which may include corporate debt, mortgage-backed, asset-backed, and U.S. government securities. A portfolio normally invests primarily in investment-grade securities.

Intermediate Term Fixed Income portfolios invest primarily in intermediate term investment-grade debt securities.

Core Fixed Income portfolios invest primarily in investment-grade debt securities, which may include U.S. government, corporate debt, mortgage-backed, asset-backed, municipal bonds and preferred securities.

Core Plus Fixed Income portfolios invest among core sectors such as corporate debt, U.S. government, and mortgage-backed and asset-backed securities as well as “plus” sectors such as preferred securities, emerging market debt, non-dollar denominated debt, and foreign currencies.

Tax-Aware Fixed Income (also sometimes known as Income Opportunity) portfolios invest primarily in tax-exempt and taxable municipal, corporate and U.S. government debt securities to seek current after-tax income and/or total return.

Custom Fixed Income portfolios invest primarily in various fixed income asset classes that may include investment grade and high yield municipal bonds, investment grade and high yield corporate bonds, government and agency securities, non-U.S. fixed income securities, and preferred securities. The portfolio management team considers its view of the relative attractiveness of these asset classes to build a customized portfolio that seeks to achieve the strategy objective. Depending on account size and regulatory status, the portfolio may include individual securities and/or shares of mutual funds or ETFs (including mutual funds and ETFs advised by NAM and/or its affiliates).

U.S. Corporate Bond Ladder portfolios invest in individual U.S. Corporate Bond securities with differing maturities across the specified strategy maturity range that will typically be held to maturity or sold as they reach the portfolio’s minimum maturity.

U.S. Government Bond Ladder portfolios invest in U.S. Treasury and/or U.S. Government Agency securities with differing maturities across the specified strategy maturity range that will typically be held to maturity or sold as they reach the portfolio’s minimum maturity.

Government portfolios invest in securities issued or guaranteed by the U.S. government or its agencies or instrumentalities, including U.S. Treasuries, U.S. agency debt and mortgage-backed securities, and may also invest in global government debt securities, and debt-related derivative instruments.

Currency portfolios are primarily invested in fixed income securities that provide long and short exposure to selected non-U.S. currencies. The fixed income securities include, but are not limited to, non-U.S. sovereign debt securities, securities issued by the U.S. government agencies and instrumentalities and debt obligations of corporate issuers. Currency portfolios also may invest in instruments that provide exposure to selected non-U.S. currencies, including derivatives such as forward currency contracts, non-deliverable forward currency contracts, currency swap contracts and other currency derivatives deemed appropriate by NAM.

Inflation-Protected Securities portfolios invest primarily in inflation protected debt securities issued by U.S. and non-U.S. governments, their agencies and instrumentalities, domestic and non-U.S. corporations and/or derivatives. A portion of the portfolio’s assets may also be invested in holdings that are not inflation protected.

Preferred Securities portfolios invest primarily in securities that generally pay fixed or adjustable rate distributions to investors and have preference over common stock in the payment of

distributions and the liquidation of a company's assets, but are junior to most other forms of the company's debt. Depending on the particular strategy and type and size of account, preferred securities strategies may include preferred securities structured as a "retail" \$25 par value and/or an "institutional" \$1,000 par value. There is also a Concentrated Preferred Securities version of this strategy.

Build America Bonds portfolios are invested primarily in Build America Bonds ("BABs"), which are bonds issued by state and local governments to finance capital projects such as public schools, roads, transportation infrastructure, bridges, ports and public buildings, among others, pursuant to the Build America Bonds program of the American Recovery & Reinvestment Act of 2009. Issuance of BABs commenced in April 2009 and ended December 31, 2010. BABs portfolios may also use derivatives such as bond futures or interest rate swaps to hedge interest rate risks. Additionally, BABs portfolios may use leverage, including through investment in inverse floating rate securities and borrowings.

Mortgage and Mortgage Related Portfolios invest in mortgage-related assets that directly or indirectly represent a participation in or are secured by and payable from mortgage loans.

Multi-Sector Bond/Strategic Income portfolios invest primarily in U.S. government securities (issued or guaranteed by the U.S. government or its agencies or instrumentalities), residential and commercial mortgage-backed securities, asset-backed securities, domestic and non-U.S. corporate debt obligations, including obligations issued by special-purpose entities that are backed by corporate debt obligations, fixed and floating rate loans, including senior loans and secured and unsecured junior loans, debt obligations of non-U.S. governments, and/or municipal securities. Such securities may include below investment grade securities.

High Yield/High Income portfolios invest primarily in below investment grade debt and other income producing securities and may include U.S. and non-U.S. securities.

Long-Short Credit portfolios generally invest in or sell short securities and other investments, consisting principally, but not solely, of fixed income securities (including, without limitation, high yield, convertible and investment grade corporate bonds, and bank loans) that are traded in the public, 144A and over-the-counter markets as well as derivatives such as total return, credit default swaps, single name swaps, index reference assets based on the foregoing instruments and may hold equity securities received as a result of restructurings or corporate reorganizations. The portfolio emphasizes high yield and below investment grade (or equivalent) investments.

Corporate Arbitrage and Relative Value portfolios invest in or sell short securities and other investments, consisting principally, but not solely, of fixed income securities (including, without limitation, high yield, convertible and investment grade corporate bonds, and bank loans) that are traded in the public, 144A and over-the-counter markets as well as derivatives such as total return and credit default swaps and single name swaps and index reference assets based on the foregoing instruments. In addition, the strategy can include positions in convertible bond, preferred stock, convertible preferred stocks and short the underlying common stock (or vice versa), which is a combination that is intended to minimize the risk of each individual position and thereby the portfolio. The portfolio emphasizes high yield and below investment grade (or equivalent) investments.

Long-Only Credit portfolios invest primarily in senior loans and/or high yield bonds. Assets may also be invested in subordinated loans, convertible securities, asset backed securities and other credit securities. The portfolio emphasizes high yield and below investment grade (or equivalent) investments.

Certain of the high yield and credit strategies are sometimes referred to as "Leveraged Finance" strategies.

Additional Information about Taxable Fixed Income Strategies. Taxable Fixed Income portfolios may invest in securities rated investment grade or below investment grade ("high yield"), and such investments for certain portfolios may be substantial. Additionally, a Taxable Fixed Income portfolio may invest a portion of its assets in securities and other instruments that are, at the time of investment, illiquid. A Taxable Fixed Income portfolio's assets may also be invested in

U.S. dollar and non-dollar denominated debt obligations of non-U.S. corporations and governments, including those located in emerging markets countries. Taxable Fixed Income portfolios may pursue other strategies or invest in other instruments described in this Brochure.

A rating includes the rating given plus or minus. For Taxable Fixed Income, NAM generally relies on the applicable rating(s) of S&P, Moody's and/or Fitch for Retail SMA and Institutional Separate Accounts, as applicable. Split rated securities (i.e., those rated differently by different applicable rating agencies) are generally deemed to receive, as applicable: the middle of three ratings or the lower of two ratings. A portion of a portfolio's assets may also be invested in securities that are unrated but that NAM deems to be of comparable quality to a particular rating.

Taxable Fixed Income portfolios may also invest in other types of fixed income securities, such as asset-backed securities, residential and commercial mortgage-backed securities, corporate debt obligations, municipal securities and inverse floating rate securities.

Taxable Fixed Income portfolios may invest in and employ derivatives including, but not limited to, futures; interest rate swaps, caps, collars and floors; index swaps, total return swaps, credit default swaps and non-U.S. currency swaps; forward currency contracts and non-deliverable forward currency contracts; options on futures, non-U.S. currencies and swaps (as well as selling call options and purchasing put options on individual or a basket of securities, as well as on swaps); and/or other derivatives. The derivatives in which the Taxable Fixed Income portfolios may invest may be exchange traded or traded over the counter. Taxable Fixed Income portfolios may also invest a portion of their total assets in dollar roll transactions.

A Taxable Fixed Income portfolio may utilize derivatives strategies to enhance return, hedge some of the risks of their investments in securities, as a substitute for a position in an underlying asset, to reduce transaction costs, to maintain full market exposure, to manage or generate cash flows, to manage the effective maturity and duration of portfolio securities, to increase yield or enhance returns, to create debt or non-U.S. currency exposure, to limit exposure to losses due to changes to non-U.S. currency exchange rates, to preserve capital, and/or other reasons to the extent permitted by client guidelines.

The portion of a Taxable Fixed Income portfolio that is invested in derivatives at times may be substantial.

Taxable Fixed Income portfolios may also invest a portion of their assets in cash and cash equivalents. Additionally, certain Taxable Fixed Income portfolios may invest in equity securities and warrants acquired in connection with investments made in certain fixed income securities.

Multi-Asset Class Investments

Allocation portfolios invest primarily in other Funds that pursue certain strategies by investing in certain types of securities or investments, including with respect to all or a material portion of an account, affiliated Funds. The particular Fund utilized will depend on the particular strategy or product. Investing in Funds, particularly in an asset allocation portfolio, causes a portfolio to indirectly bear its proportionate share of the Fund's fees and expenses, in addition to portfolio expenses. Allocation strategies include **Multi-Asset Income**, **Tax-exempt Income**, **ESG Growth** and others.

Target Date strategy portfolios invest in affiliated, passively managed equity and fixed income Funds/pooled investments vehicles according to asset allocation strategy designed for investors expected to retire in a particular year. The portfolio's investments are adjusted from more aggressive to more conservative over time as the target retirement year approaches.

Additional Information about Allocation Portfolios.

Allocation portfolios may pursue other strategies or invest in other instruments described in this Brochure, including ETNs. A portfolio may utilize the following derivatives: options; futures contracts; options on futures contracts, including futures on equity and commodities indices; interest rate and currency futures; interest rate caps, collars, and floors; non-U.S. currency contracts; options on non-U.S. currencies; interest rate, total return, currency and credit default swaps, and options on the foregoing types of swap agreements. A portfolio may use these derivatives in an attempt to manage market risk, currency risk, credit risk and yield curve risk; to manage the effective maturity or duration of securities in the portfolio; or for speculative purposes in an effort to increase yield or to enhance returns.

Index portfolios generally invest a substantial amount of their assets in common stocks included in a particular broad-based securities index, such as a large cap, mid cap or small cap index. A portfolio generally does not hold all of the stocks included in a particular index, or hold them in the same weighting as the index.

Enhanced Equity Index/Large Cap Core Quantitative portfolios follow an actively managed strategy that uses a proprietary quantitative process to invest in common stocks.

Managed Volatility strategies are designed to manage volatility levels regardless of the volatility level of the overall market. The strategies increase or decrease exposure to particular markets through the use of ETFs, ETNs, options, futures, forwards, total return swaps, and other investment vehicles and derivatives, dependent upon the specified mandate and client restrictions. The strategy uses volatility forecasts to inform investment decisions in an attempt to keep the portfolio's volatility within a particular range. These strategies can be implemented as standalone investments across asset classes or as an overlay to an underlying portfolio advised by NAM or a third party investment adviser and can be customized to a client's specific volatility objectives.

Certain strategies include the use of a put-spread options strategy to enhance income. The strategy generates income by selling short-term market protection and capturing the volatility premium. Specifically, a put option is written (i.e., sold) on a particular index (e.g., U.S. large cap equity market) with an exercise price just below the current level of the index. In addition, a put option is purchased on the same index with an exercise price below the exercise price of the written put. The strategy earns income from selling the put options and the purchased put seeks to provide downside protection.

Multi-Asset Class investments seek to design and/or implement an investment strategy that meets a client's particular needs. Multi-Asset Class investments generally employ the use of NAM and/or affiliated products and services. Given the multiple potential services that NAM may collectively provide, such as multi-asset class solutions, structured portfolio solutions including volatility management and option overlay or allocation advice together with portfolio management, conflicts of interest may arise. NAM generally provides advisory services to account strategies that contemplate, with respect to all or a material portion of an account, an allocation to affiliated Funds, affiliated products and/or affiliated advisers, including NAM. This structure results in more aggregate revenue to NAM and its affiliates than would result from an allocation to unaffiliated Funds, products and/or advisers.

Some aspects of these strategies employ quantitative analysis and systems and other proprietary and third party data and systems; see Technology Risk below.

Depending on the strategy, multi-asset class portfolios may invest in and employ a wide range of securities and derivatives. Such derivatives include, but are not limited to, futures; interest rate swaps, caps, collars and floors; index swaps, total return swaps, credit default swaps and non-U.S. currency swaps; forward currency contracts and non-deliverable forward currency contracts; options on futures, non-U.S. currencies and swaps (as well as selling call options and purchasing put options on individual or a basket of securities, as well as on swaps); and/or other derivatives. The derivatives in which the portfolios may invest may be exchange traded or traded over the counter. The portfolios may also invest a portion of their total assets in dollar roll transactions.

Alternative Strategies

Customized Derivative Overlay portfolios are designed to provide cash flow by shifting the probability distribution of investment outcomes. These portfolios invest in swap contracts, exchange-traded and over-the-counter (OTC) derivatives.

Responsible Investing/ESG Strategies

NAM offers specific strategies in the municipal bond, taxable fixed income and equity asset classes that include environmental, social and governance (ESG) and/or environmental and social impact considerations. Such strategies typically include “ESG”, “Impact”, “Green” or other similar references in the strategy names, including **ESG Municipal Bond**, **Core Impact Bond**, **ESG Growth**, and others. Details regarding the responsible investing/ESG requirements for a particular strategy are generally addressed in investment guidelines or otherwise agreed with clients.

For certain accounts where agreed with a client NAM also provides investment advisory services with respect to customized investment strategies that include responsible investing/ESG criteria or principles. Unless a strategy expressly undertakes to employ certain responsible investing/ESG factors, NAM will not necessarily include in or exclude from portfolios certain securities, industries or sectors based solely on such criteria.

RISKS

As with any investment, loss of principal is a risk of investing in accordance with any of the investment strategies described above. This Brochure does not include every potential risk associated with an investment strategy, or all of the risks applicable to a particular portfolio. Rather, it is a general description of the nature and risks of NAM's principal strategies. The strategies described above also are subject to the risks listed below.

General Risks

The following risks are generally applicable to Equity, Fixed Income, Asset Allocation and other strategies. Such risks are in addition to the risks described more specifically with respect to Equity, Fixed Income, Asset Allocation and other strategies (including, as applicable, International) below.

Active Management Risk - A portfolio is subject to the risk that the investment decisions or trading execution may cause the account to underperform relative to the benchmark index or to portfolios with similar investment objectives managed by other investment managers.

Asset Allocation Risk - Actively managed portfolios, particularly asset allocation portfolios, are dependent upon an adviser or sub-adviser's ability to make allocations and investment decisions to achieve a portfolio's investment objective. There is a risk that the adviser or sub-adviser's evaluations and assumptions used in making such allocations may be incorrect. As a result, a portfolio may underperform its benchmark or other portfolios with similar investment objectives.

Capital Structure Risk - Conflicts may arise when NAM invests one or more client accounts in different or multiple parts of the same issuer's or borrower's (or its affiliate's) capital structure, including investments in public versus private securities, debt versus equity, or senior versus junior/subordinated debt, or otherwise where there are different or inconsistent rights or benefits. Decisions or actions such as investing, trading, proxy voting, exercising, waiving or amending rights or covenants, workout activity, or serving on a board, committee or other involvement in governance may result in conflicts of interest between clients holding different securities or investments. Generally, individual portfolio managers will seek to act in a manner that they believe serves the best interest of the accounts they manage. In cases where a portfolio manager or team faces a conflict among its client accounts, it will seek to act in a manner that it believes best reflects its overall fiduciary duty, which may result in relative advantages or disadvantages for particular accounts. There is also a risk that NAM could obtain material non-public information (MNPI). Possession of MNPI could limit NAM's ability to transact in affected investments, which could be detrimental to client accounts. See Item 11.

Commodities Risk - Certain portfolios may invest in instruments providing exposure to commodities. Commodities markets historically have been extremely volatile, and the performance of securities that provide an exposure to those markets therefore also may be highly volatile. Commodities prices are affected by factors such as the cost of producing commodities, changes in consumer demand for commodities, the hedging and trading strategies of producers and consumers of commodities, speculative trading in commodities by commodity pools and other market participants, disruptions in commodity supply, drought, floods, weather, livestock disease, embargoes, tariffs, and international economic, political, and regulatory developments. Suspensions or disruptions of market trading in the commodities markets and related futures markets may adversely affect the value of securities providing an exposure to the commodities markets.

The Commodity Futures Trading Commission ("CFTC") is continuing to propose, adopt, and implement regulations governing the trading of swaps and other derivatives that the CFTC regulates. Those regulations may impose recordkeeping, reporting, clearing, business conduct, and trade execution requirements, among other things. Compliance with these requirements, and other requirements that may be adopted in the future, may increase expenses or transaction costs for accounts. The regulation of commodity transactions in the United States is a rapidly changing area of law and is subject to ongoing modification by government, self-regulatory and judicial action. The effect of any future regulatory change is impossible to predict, but could be substantial and adverse.

Concentration Risk - A portfolio's concentration of investments in securities of issuers located in a particular industry or sector or a particular state, country or region subjects a portfolio to economic conditions that may adversely affect an industry, sector or geographic area. In addition, concentration of investments in issuers located in a particular geography subjects a portfolio to government policies within that geographic area. As a result, a portfolio will be more susceptible to factors that adversely affect issuers in a particular industry, sector or geographic area than a portfolio that does not have as great a concentration in such issuers. A concentrated portfolio may also invest a larger portion of its assets in the securities of a limited number of issuers and may be more sensitive to any single economic, business, political or regulatory occurrence than a less concentrated, more diversified portfolio.

Counterparty Risk - Changes in the credit quality of the companies that serve as counterparties with respect to derivatives or other transactions supported by another party's credit may affect the value of those instruments. Certain entities that have served as counterparties in the markets for these transactions have recently incurred significant losses and financial hardships including bankruptcy as a result of exposure to sub-prime mortgages and other lower quality credit investments that have experienced recent defaults or otherwise suffered extreme credit deterioration. As a result, such hardships have reduced these entities' capital and called into question their continued ability to perform their obligations under such transactions. By using derivatives or other transactions, an account assumes the risk that its counterparties could experience similar financial hardships. In the event of insolvency of a counterparty, an account may sustain losses or be unable to liquidate a derivatives position. The counterparty risk for cleared derivatives is generally lower than for uncleared over-the-counter ("OTC") derivative transactions since generally a clearing organization becomes substituted for each counterparty to a cleared derivative contract and, in effect, guarantees the parties' performance under the contract as each party to a trade looks only to the clearing house for performance of financial obligations. However, there can be no assurance that the clearing house, or its members, will satisfy its obligations to an account.

Cybersecurity Risk - Cybersecurity risk is the risk of an unauthorized breach and access to portfolio assets, customer data, or proprietary information, or the risk of an incident occurring that causes the portfolio, the investment adviser or sub-adviser, custodian, transfer agent, distributor or other service provider or a financial intermediary to suffer a data breach, data corruption or lose operational functionality. Successful cyber-attacks or other cyber-failures may adversely impact the affected portfolio and/or client. Additionally, a cybersecurity breach could affect the issuers in which a portfolio invests, which may cause declines in an issuer's security price.

Derivatives Risk - The use of derivatives presents risks different from, and possibly greater than, the risks associated with investing directly in traditional securities. Derivatives can be highly volatile, illiquid and difficult to value, and there is the risk that changes in the value of a derivative held by an account will not correlate with the asset, index or rate underlying the derivative contract.

The use of derivatives can lead to losses because of adverse movements in the price or value of the underlying asset, index or rate, which may be magnified by certain features of the contract. An over-the-counter derivative transaction between an account and a counterparty that is not cleared through a central counterparty also involves the risk that a loss may be sustained as a result of the failure of the counterparty to the contract to make required payments. The payment obligation for a cleared derivative transaction is guaranteed by a central counterparty, which exposes the account to the creditworthiness of the central counterparty. These risks are heightened when the management team uses derivatives to enhance the account's return or as a substitute for a position or security, rather than solely to hedge (or offset) the risk of a position or security held by an account. In addition, when an account invests in certain derivative securities, including, but not limited to, when-issued securities, forward commitments, futures contracts and interest rate swaps, it is effectively leveraging its investments, which could result in exaggerated changes in the account's value and can result in losses that exceed the amount originally invested. The success of an account's derivatives strategies will depend on NAM's ability to assess and predict the impact of market or economic developments on the underlying asset, index or rate and the derivative itself, without the benefit of observing the performance of the derivative under all possible market conditions.

An account may also enter into OTC transactions in derivatives. Transactions in the OTC markets generally are conducted on a principal-to-principal basis. The terms and conditions of these instruments generally are not standardized and tend to be more specialized or complex, and the instruments may be harder to value. In general, there is less governmental regulation and supervision of transactions in the OTC markets than of transactions entered into on organized exchanges. In addition, certain derivative instruments and markets may not be liquid, which means an account may not be able to close out a derivatives transaction in a cost-efficient manner. Short positions in derivatives may involve greater risks than long positions, as the risk of loss on short positions is theoretically unlimited (unlike a long position, in which the risk of loss may be limited to the notional amount of the instrument).

A portfolio may be subject to credit risk with respect to the counterparties to certain derivatives agreements entered into by the portfolio. If a counterparty becomes bankrupt or otherwise fails to perform its obligations under a derivative contract due to financial difficulties, the portfolio may experience significant delays in obtaining any recovery under the derivative contract in a bankruptcy or other reorganization proceeding. The portfolio may obtain only a limited recovery or may obtain no recovery in such circumstances.

Writing (selling) covered call options on some or all of a portfolio's holdings subject the portfolio to additional risks. Because a covered call strategy limits participation in the appreciation of the underlying asset, in this case the securities, owning securities in a portfolio is not the same as an investment linked to the performance of the securities. By writing covered call options on the securities, a portfolio will give up the opportunity to benefit from potential increases in the value of the securities above the exercise prices of the options, but will continue to bear the risk of declines in the value of the securities. The premiums received from the options may not be sufficient to offset any losses sustained from the volatility of the securities over time.

A portfolio may purchase index put options to protect against a significant market decline over a short period of time. When index put options become expensive relative to the protection afforded a portfolio, the portfolio may reduce the amount of index put options to a level that is less than the full value of the portfolio. If a put option purchased by the portfolio is not sold or exercised when it has remaining value, the portfolio will lose its entire investment in the index put option. Also, where an index put option is purchased to hedge all or part of the portfolio, the price of the index put option may move more or less than the value of the index.

Certain commodity-linked derivative instruments, repurchase agreements, swap agreements and other forms of financial instruments that involve counterparties subject an account to the risk that

the counterparty could default on its obligations under the agreement, either through the counterparty's bankruptcy or failure to perform its obligations. In the event of default, an account could experience lengthy delays in recovering some or all of its assets or no recovery at all. A futures commission merchant ("FCM") may default on an obligation set forth in an agreement between an account and the FCM, including the FCM's obligation to return margin posted in connection with the account's futures contracts.

The Dodd-Frank Act required the U.S. Securities and Exchange Commission ("SEC"), the CFTC, and other federal financial regulators to develop an expanded regulatory framework for derivatives. While the CFTC has adopted most of the required regulations for commodity based swaps, the CFTC is still revising these rules, and the SEC has yet to implement a number of regulations relating to security-based swaps. Thus, the ultimate impact of the SEC's and CFTC's rulemakings is still unknown, but has the potential to increase the costs of using derivatives, may limit the availability of some forms of derivatives or NAM's or an account's ability to use derivatives in pursuit of its investment objectives, and may adversely affect the performance of some derivative instruments used. Moreover, parallel regulatory reform efforts taken by governmental authorities outside of the U.S. have resulted in the adoption of similar, but not identical requirements to those adopted in the U.S., and the lack of harmonization or mutual recognition between U.S. and foreign regulatory schemes has the potential to fragment the liquidity for derivatives markets into regional liquidity pools which may increase the cost of derivatives and adversely impact the performance of some instruments.

Certain derivatives (e.g., futures, options on futures and swaps) may be considered commodities and subject to the risks and limitations associated with commodities. See *Commodities Risk*.

Downgrade Risk - The risk that securities are subsequently downgraded should NAM and/or rating agencies believe the issuer's business outlook or creditworthiness has deteriorated.

Global Economic Risk - National and regional economies and financial markets are becoming increasingly interconnected, which increases the possibilities that conditions in one country, region or market might adversely impact issuers in a different country, region or market. Changes in legal, political, regulatory, tax and economic conditions may cause fluctuations in markets and securities prices around the world, which could negatively impact the value of an account's investments. For example, the United Kingdom's referendum decision to leave the European Union resulted in the depreciation in value of the British pound, short term declines in the stock markets and ongoing economic and political uncertainty concerning the consequences of the exit. Similar major economic or political disruptions, particularly in large economies like China's, may have global negative economic and market repercussions. Additionally, events such as war, terrorism, natural and environmental disasters and the spread of infectious illnesses or other public health emergencies may adversely affect the global economy and the markets and issuers in which an account invests. Recent examples of such events include the outbreak of a novel coronavirus known as COVID-19. These events could reduce consumer demand or economic output, result in market closure, travel restrictions or quarantines, and generally have a significant impact on the economy. Such events could materially increase risks, including market and liquidity risk, and significantly reduce account values. These events could also impair the information technology and other operational systems upon which service providers, including NAM, rely, and could otherwise disrupt the ability of employees of service providers to perform essential tasks on behalf of an account. There is no assurance that governmental and quasi-governmental authorities and regulators will provide constructive and effective intervention when facing a major economic, political or social disruption, disaster or other public emergency.

Hedging Risk - NAM's use of derivatives or other transactions to reduce risks in an account involves costs and will be subject to NAM's ability to predict correctly changes in the relationships of such hedge instruments to the portfolio holdings or other factors. No assurance can be given that NAM's judgment in this respect will be correct. In addition, no assurance can be given that an account will enter into hedging or other transactions at times or under circumstances in which it may be advisable to do so.

Investment Style Risk - Different types of securities and asset classes (e.g., equities vs fixed income; large cap vs small cap; value vs growth; U.S. vs international markets; developed vs

emerging markets, etc.) tend to shift in and out of favor depending on market and economic conditions. To the extent a portfolio emphasizes a particular style of investing or asset class, a portfolio runs the risk that such style or asset class will underperform relative to the benchmark index or portfolios with similar investment objectives managed by other investment managers.

Issuer Risk - The risk that an issuer's earnings prospects and overall financial position will deteriorate, causing a decline in the value of the issuer's financial instruments over short or extended periods of time.

Liquidity Risk - Liquidity risk exists when particular investments are difficult to purchase or sell. An account's investments in illiquid securities may reduce the returns of the account because it may be unable to sell the illiquid securities at an advantageous time or price. Additionally, the market for certain investments may become illiquid under adverse market or economic conditions independent of any specific adverse changes in the conditions of a particular issuer. In such cases, an account, due to potential limitations on investments in illiquid securities and the difficulty in purchasing and selling such securities or instruments, may be unable to achieve its desired level of exposure to a certain sector.

Market Risk - The market values of securities owned by the portfolios may decline, at times sharply and unpredictably. Market values of equity securities are affected by a number of different factors, including the historical and prospective earnings of the issuer, the value of its assets, management decisions, decreased demand for an issuer's products or services, increased production costs, general economic conditions, interest rates, currency exchange rates, investor perceptions and market liquidity. Market values of debt securities are also affected by a number of different factors, including changes in interest rates, the credit quality of bond issuers, and general economic and market conditions. These risks may be magnified for lower-quality fixed income securities.

Non-Diversification Risk - A less diversified portfolio may invest a large portion of its assets in a fewer number of issuers than a diversified portfolio. If a relatively high percentage of a portfolio's assets may be invested in the securities of a limited number of issuers, a portfolio may be more susceptible to any single, economic, business (either globally or with respect to a particular company or companies), political or regulatory occurrence than a diversified portfolio.

Other Investment Companies Risk - When an account invests in investment companies (including ETFs), the client account bears both its advisory fees payable to NAM, and, indirectly, the expenses of the other investment companies. Furthermore, the account is exposed to the risks to which the other investment companies may be subject.

Quantitative Strategy Risk - When executing an investment strategy using various quantitative or investment models, securities or other financial instruments selected may perform differently than expected, or from the market as a whole, as a result of a model's component factors, the weight placed on each factor, changes from the factors' historical trends, deficiencies in the inputs, design, operation and implementation of models, inadvertent systems and human errors, and technical issues in the construction, implementation and maintenance of the models (e.g., data problems, software issues, etc.). There can be no assurance that a model will achieve its objective.

Rule 144A Securities Risk - The market for Rule 144A securities, which are privately-issued securities that can only be traded among so-called qualified institutional buyers, typically is less active than the market for publicly-traded securities. Rule 144A securities carry the risk that their liquidity may become impaired and the portfolio may be unable to dispose of the securities promptly or at reasonable prices.

Technology Risk - Certain strategies may rely on quantitative analysis and systems and other proprietary and third party data and systems to support investment decision making. Data imprecision, software or other technology malfunctions, programming inaccuracies and similar circumstances may impair the performance of these systems, which may negatively affect performance.

Temporary Investment Measures - An account may temporarily depart from its normal investment policies and strategies – for instance, by allocating all or a significant percentage of its assets to cash equivalents, short-term investments, or securities that do not comply with strategy guidelines

– in response to adverse or unusual market, economic, political or other conditions. Such conditions could include a temporary decline in the availability of certain securities.

Additional Regulatory Risk - If financial markets become unstable, as happened in 2008-2009, federal, state, and other governments, their regulatory agencies, or self-regulatory organizations could take actions that affect the regulation of the instruments in which an account invests, or the issuers of such instruments, in ways that are unforeseeable. Volatile financial markets can expose accounts to greater market and liquidity risk and potential difficulty in valuing portfolio instruments held by accounts. The value of an account's holdings is also generally subject to the risk of future local, national, or global economic disturbances based on unknown weaknesses in the markets in which an account invests. In the event of such a disturbance, issuers of securities held by a portfolio may experience significant declines in the value of their assets and even cease operations, or may receive government assistance accompanied by increased restrictions on their business operations or other government intervention. In addition, it is not certain that the U.S. government will intervene in response to a future market disturbance and the effect of any such future intervention cannot be predicted. It is difficult for issuers to prepare for the impact of future financial downturns, although companies can seek to identify and manage future uncertainties through risk management programs.

Equity Risks

General Equity Risks

Equity Security Risk - Equity securities in a portfolio may decline significantly in price over short or extended periods of time. Price changes may occur in the market as a whole, or they may occur in only a particular country, company, industry, or sector of the market. From time to time, a portfolio may invest a significant portion of its assets in companies in one or more related sectors or industries which would make the portfolio more vulnerable to adverse developments affecting such sectors or industries.

Equity Risks Related to Particular Strategies

Dividend-Paying Security Risk - A portfolio's investment in dividend-paying stocks could cause the portfolio to underperform similar portfolios that invest without consideration of a company's track record of paying dividends. Stocks of companies with a history of paying dividends may not participate in a broad market advance to the same degree as most other stocks, and a sharp rise in interest rates or economic downturn could cause a company to unexpectedly reduce or eliminate its dividend.

Frequent Trading Risk - Certain strategies, including Real Asset Income, Global Infrastructure, Dividend Value, Equity Long/Short and Equity Market Neutral strategies, among others, may trade securities frequently. Frequent trading of portfolio securities may produce capital gains, which are taxable to clients when distributed. Frequent trading may also increase the amount of commissions or mark-ups to broker-dealers that a portfolio pays when it buys and sells securities, which may detract from portfolio performance.

Growth Stock Risk - Growth stocks tend to be more volatile than certain other types of stocks and their prices usually fluctuate more dramatically than the overall stock market. Growth stocks may be more expensive relative to their earnings or assets compared to other types of equity securities. Accordingly, a stock with growth characteristics can have sharp price declines due to decreases in current or expected earnings and may lack dividends that can help cushion its share price in a declining market. In addition, growth stocks, at times, may not perform as well as value stocks or the stock market in general, and may be out of favor with investors for varying periods of time.

Index Replication/Tracking Risk - The ability of a portfolio to replicate the performance of a broad-based index may be affected by, among other things, changes in securities markets, the manner in which performance of the index is calculated, changes in the composition of the index, the composition of the portfolio, the amount and timing of cash flows into and out of the portfolio, commissions, sales charges (if any), and other expenses.

Initial Public Offering Risk - By virtue of its size and institutional nature, an adviser may have greater access to IPOs than individual investors. Most IPOs involve a high degree of risk not normally associated with offerings of more seasoned companies. Companies involved in IPOs generally have limited operating histories, and their prospects for future profitability are uncertain. These companies often are engaged in new and evolving businesses and are particularly vulnerable to competition and to changes in technology, markets and economic conditions. They may be dependent on certain key managers and third parties, need more personnel and other resources to manage growth and require significant additional capital. They may also be dependent on limited product lines and uncertain property rights, and may need certain regulatory approvals. Investors in IPOs can be affected by substantial dilution in the value of their shares, by sales of additional shares and by concentration of control in existing management and principal shareholders. Stock prices of IPOs can also be highly unstable, due to the absence of a prior public market, the small number of shares available for trading and limited investor information. IPOs will frequently be sold within 12 months of purchase. This may result in increased short-term capital gains, which will be taxable as ordinary income.

Large-Cap Company Risk - To the extent that an account invests in large capitalization stocks, the account may underperform accounts that invest primarily in stocks of smaller capitalization companies during periods when the stocks of such companies are in favor. Large-capitalization companies may be unable to respond as quickly as smaller capitalization companies to competitive challenges or to changes in business, product, financial or other market conditions.

Market Neutral Style Risk - A market neutral strategy may underperform compared to the general stock market or other equity strategies that do not utilize a market neutral strategy. For example, in a rising stock market, an account's short positions may significantly impact its overall performance and cause it to underperform traditional long-only equity accounts or to sustain losses, particularly in a sharply rising market. In addition, there is no guarantee that NAM will be able to construct a portfolio that limits the account's exposure to market movements. Further, market neutral strategies may involve frequent trading through rebalancing long and short positions in an attempt to maintain a market neutral position.

Mid-Cap Company Risk - While stocks of mid-cap companies may be slightly less volatile than those of small-cap companies, they still involve substantial risk. Mid-cap companies may have limited product lines, markets or financial resources, and they may be dependent on a limited management group. Stocks of mid-cap companies may be subject to more abrupt or erratic market movements than those of large, more established companies or the market averages in general.

Short Selling Risk - Strategies that include short selling will incur a loss as a result of a short sale if the price of the security sold short increases in value between the date of the short sale and the date on which the account purchases the security to replace the borrowed security. In addition, a lender may request, or market conditions may dictate, that securities sold short be returned to the lender on short notice, which may result in the account having to buy the securities sold short at an unfavorable price. If this occurs, any anticipated gain to the account may be reduced or eliminated or the short sale may result in a loss. In a rising stock market, an account's short positions may significantly impact the account's overall performance and cause the account to underperform traditional long-only equity strategies or to sustain losses, particularly in a sharply rising market. The use of short sales may also cause the account to have higher expenses than long only accounts. Short sales are speculative transactions and involve special risks, including greater reliance on NAM's ability to accurately anticipate the future value of a security. Because losses on short sales arise from increases in the value of the security sold short, such losses are theoretically unlimited. By contrast, a loss on a long position arises from decreases in the value of the security and is limited by the fact that a security's value cannot go below zero.

The combination of short sales with long positions in an account's portfolio in an attempt to improve performance or reduce overall portfolio risk may not be successful and may result in greater losses or lower positive returns than if the account held only long positions. It is possible that an account's long securities positions will decline in value at the same time that the value of its short securities positions increase, thereby increasing potential losses to the account. In addition, an account's short selling strategies may limit its ability to fully benefit from increases in the equity markets.

To the extent an account invests the proceeds received from selling securities short in additional long positions, the account is engaging in a form of leverage. The use of leverage may increase the account's exposure to long positions and make any change in the account's value greater than it would be without the use of leverage. This could result in increased volatility of returns.

Small-Cap Company Risk - Stocks of small-cap companies involve substantial risk. These companies may lack the management expertise, product diversification, and competitive strengths of larger companies. They may have limited access to financial resources and may not have the financial strength to sustain them through business downturns or adverse market conditions. Since small-cap companies typically reinvest a high proportion of their earnings in their business, they may not pay dividends for some time, particularly if they are newer companies. Prices of small-cap stocks may be subject to more abrupt or erratic movements than stock prices of larger, more established companies or the market averages in general. In addition, the frequency and volume of their securities trading may be less than is typical of securities issued by larger companies, making them subject to wider price fluctuations. In some cases, there could be difficulties in selling the stocks of small-cap companies at the desired time and price, especially in situations of increased market volatility. Stocks at the bottom end of the capitalization range of small-cap companies sometimes are referred to as "micro-cap" stocks. These stocks may be subject to extreme price volatility, as well as limited liquidity and limited research.

Style-Specific Risk - Different types of stocks tend to shift in and out of favor depending on market and economic conditions. To the extent a portfolio emphasizes a value or growth style of investing, a portfolio runs the risk that undervalued companies' valuations will never improve or that growth companies may be more volatile than other types of investments, respectively.

Value Stock Risk - The intrinsic value of a stock with value characteristics may be difficult to identify and may not be fully recognized by the market for a long time or a stock identified to be undervalued may actually be appropriately priced at a low level. Value investing has gone in and out of favor during past market cycles and when value investing is out of favor the securities of value companies may underperform the securities of other companies.

Fixed Income Risks

General Fixed Income Risks

Bond Market Liquidity Risk - Dealer inventories of bonds, which provide an indication of the ability of financial intermediaries to "make markets" in those bonds, are at or near historic lows in relation to market size. This reduction in market making capacity has the potential to decrease liquidity and increase price volatility and trading costs in the fixed income securities and/or markets, particularly during periods of economic or market stress. As a result of this decreased liquidity, an account may have to accept a lower price to sell a security, sell other securities to raise cash, or give up an investment opportunity, any of which could have a negative effect on performance.

Call Risk - If, during periods of falling interest rates, an issuer calls higher-yielding debt instruments held by an account, the account may have to reinvest in debt instruments with lower yields, which may adversely impact performance.

Call Option Risk - For accounts that sell (write) options, the value of such call options sold (written) by an account will fluctuate. Additionally, the account may not participate in any appreciation of its portfolio as fully as it would if the account did not sell call options. In addition, an account that sells (writes) options will continue to bear the risk of declines in the value of its portfolio.

Credit Risk - Credit risk is the risk that an issuer of a debt security will be unable or unwilling to make interest and principal payments when due and the related risk that the value of a security may decline because of concerns about the issuer's ability or willingness to make such payments. Credit risk may be heightened for portfolios that invest in lower quality bonds, including "high yield" securities.

Credit Spread Risk - Credit spread risk is the risk that credit spreads (i.e., the difference in yield between securities that is due to differences in their credit quality) may increase when the market believes that bonds generally have a greater risk of default. Increasing credit spreads may reduce

the market value of the portfolio's debt securities. Credit spreads often increase more for lower rated and unrated securities than for investment grade securities. In addition, when credit spreads increase, reductions in market value will generally be greater for longer-maturity securities.

Extension Risk - During periods of rising interest rates, the average life of certain types of securities may be extended because of lower than expected principal payments. This may lock in a below market interest rate, increase the security's duration and reduce the value of the security. This is known as extension risk. Market interest rates for investment grade fixed-income securities are currently significantly below the historical average rates for such securities. This decline may have increased the risk that these rates will rise in the future. Historical interest rate levels, however, are not necessarily predictive of future interest rate levels.

Income Risk - The income earned from a portfolio may decline during periods of falling interest rates. Also, if a portfolio invests in inverse floating rate securities, whose income payments vary inversely with changes in short-term market rates, the portfolio's income may decrease if short-term interest rates rise.

Inflation Risk - The value of assets or income from investments may be lower in the future as inflation decreases the value of money. As inflation increases, the value of a portfolio's assets can decline, as can the value of a portfolio's distributions.

Interest Rate Risk - Interest rate risk is the risk that the value of a portfolio will decline because of rising interest rates. Fixed-rate securities held by a portfolio will fluctuate in value with changes in interest rates. In general, fixed-rate securities will increase in value when interest rates fall and decrease in value when interest rates rise. When interest rates change, the values of longer-duration debt securities usually change more than the values of shorter-duration debt securities. Rising interest rates also may lengthen the duration of debt securities with call features, since exercise of the call becomes less likely as interest rates rise, which in turn will make the securities more sensitive to changes in interest rates and result in even steeper price declines in the event of further interest rate increases.

Prepayment Risk - During periods of declining interest rates, the issuer of certain types of securities may exercise its option to prepay principal earlier than scheduled, forcing a portfolio to reinvest in lower yielding securities. This is known as call or prepayment risk. Debt securities frequently have call features that allow the issuer to repurchase the security prior to its stated maturity. An issuer may redeem an obligation if the issuer can refinance the debt at a lower cost due to declining interest rates or an improvement in the credit standing of the issuer.

Unrated Security Risk - Unrated securities determined by NAM to be of comparable quality to rated securities which the portfolio may purchase may pay a higher interest rate than such rated securities and be subject to a greater risk of illiquidity or price changes. Less public information is typically available about unrated securities or issuers than rated securities or issuers.

Valuation Risk - The debt securities in which a portfolio may invest typically are valued by a pricing service utilizing a range of market-based inputs and assumptions, including readily available market quotations obtained from broker-dealers making markets in such instruments, cash flows and transactions for comparable instruments. There is no assurance that a portfolio will be able to sell a security at the price established by the pricing service, which could result in a loss to the portfolio. Pricing services generally price debt securities assuming orderly transactions of an institutional "round lot" size, but some trades may occur in smaller, "odd lot" sizes, often at lower prices than institutional round lot trades. Different pricing services may incorporate different assumptions and inputs into their valuation methodologies, potentially resulting in different values for the same securities. As a result, if NAM were to change pricing services, or if NAM's pricing service were to change its valuation methodology, there could be a material impact, either positive or negative, on the portfolio's value.

Fixed Income Risks Relating to Particular Strategies

Alternative Minimum Tax Risk - Certain municipal bond strategies are not limited as to the amount that can be invested in bonds that generate income subject to the alternative minimum tax.

Therefore, all or a portion of the account's otherwise exempt-interest dividends may be taxable to those account holders subject to the federal alternative minimum tax.

Build America Bond Risk - Build America Bonds ("BABs") are bonds issued by state and local governments to finance capital projects such as public schools, roads, transportation infrastructure, bridges, ports and public buildings, among others, pursuant to the Build America Bonds Act (the "Act"). Unlike investments in most other municipal securities, interest received on BABs is subject to U.S. federal income tax and may be subject to state income tax. The Act, enacted in February 2009, authorizes state and local governments to issue taxable bonds on which, assuming certain specified conditions are satisfied, issuers may either (i) receive payments from the U.S. Treasury equal to a specified percentage of its interest payments (known as "direct pay" BABs) or (ii) cause investors in the bonds to receive federal tax credits ("tax credit" BABs). Direct pay BABs entitle issuers to receive reimbursement from the U.S. Treasury equal to a certain percentage of the interest paid on the bonds, which allows such issuers to issue bonds that pay interest rates that are expected to be competitive with the rates typically paid by private bond issuers in the taxable fixed income market. The portfolios may invest in either direct pay BABs or tax credit BABs in any amount at any time. Issuance of BABs commenced in April 2009 and ended December 31, 2010. Because there are no new issuances of BABs and to the extent that there are no or other taxable municipal securities with interest payments subsidized by the U.S. Government through direct pay subsidies, the ability to execute a BABs strategy may be impaired. BABs portfolios may also use derivatives such as bond futures or interest rate swaps to hedge interest rate risks. Additionally, BABs portfolios may utilize leverage, including through investment in inverse floating rate securities and borrowings. Due to the finite universe of BABs previously issued, and maturation, calls and other factors relating to such securities, there is a limited supply of BABs.

Collateralized Loan Obligations Risk - A CLO is an asset-backed security whose underlying collateral is a pool of loans, which may include, among others, domestic and foreign floating rate and fixed rate senior secured loans, senior unsecured loans, and subordinate corporate loans, including loans that may be rated below investment grade. In addition to the risks associated with loans and high yield securities, CLOs are subject to the risk that distributions from the collateral may not be adequate to make interest or other payments in accordance with the terms of the underlying issued security; the quality of the collateral may decline in value or default; an account may invest in tranches of CLOs that are subordinate to other tranches; and the CLO's manager may perform poorly. CLOs generally charge management and other administrative fees, which are in addition to account-level fees.

Contingent Capital Security Risk - Contingent capital securities (sometimes referred to as "CoCos") have loss absorption mechanisms benefitting the issuer built into their terms. Upon the occurrence of a specified trigger or event, CoCos may be subject to automatic conversion into the issuer's common stock, which likely will have declined in value and which will be subordinate to the issuer's other classes of securities, or to an automatic write-down of the principal amount of the securities, potentially to zero, which could result in the portfolio losing a portion or all of its investment in such securities. CoCos are often rated below investment grade and are subject to the risks of high yield securities.

Convertible Securities Risk - Convertible securities generally offer lower interest or dividend yields than non-convertible fixed-income securities of similar credit quality because of the potential for capital appreciation. The market values of convertible securities tend to decline as interest rates increase and, conversely, to increase as interest rates decline. In the event of a liquidation of the issuing company, holders of convertible securities would be paid before that company's common stockholders. Consequently, an issuer's convertible securities generally entail less risk than its common stock. However, convertible securities rank below debt obligations of the same issuer in order of preference or priority in the event of a liquidation or reorganization and are typically unrated or rated lower than such debt obligations. Different types or subsets of convertible securities may carry further risk of loss.

Defaulted and Distressed Securities Risk - Accounts in certain municipal bond or other fixed income strategies, including high yield municipal bond and high yield taxable fixed income, regularly invest in securities that are considered in default or otherwise in distress, or may later become so. The issuer/borrower of such securities may be in or headed toward bankruptcy or insolvency

proceedings. Moreover, certain strategies, including high yield municipal bond, may invest in securities rated CCC+/Caa1 or lower, or unrated but judged by NAM to be of comparable quality. Some or many of these low-rated securities, although not in default, may be “distressed,” meaning that the issuer is experiencing financial difficulties or distress at the time of acquisition. Such securities would present a substantial risk of future default which may cause an account to incur losses, including additional expenses, to the extent it is required to seek recovery upon a default in the payment of principal or interest on those securities. In any reorganization or liquidation proceeding relating to a portfolio security, an account may lose its entire investment or may be required to accept cash or securities with a value less than its original investment. Defaulted or distressed securities may be subject to restrictions on resale, and may be considered restricted and/or illiquid.

Defaulted Bond Risk - Defaulted bonds are speculative and involve substantial risks in addition to the risks of investing in high yield securities that have not defaulted. An account generally will not receive interest payments on the defaulted bonds and there is a substantial risk that principal will not be repaid. In any reorganization or liquidation proceeding relating to a defaulted bond, the account may lose its entire investment or may be required to accept cash or securities with a value less than its original investment. Defaulted bonds and any securities received in exchange for defaulted bonds may be subject to restrictions on resale.

Dollar Roll Transaction Risk - In a dollar roll transaction, a portfolio sells mortgage-backed securities for delivery in the current month while contracting with the same party to repurchase similar securities at a future date. Because the portfolio gives up the right to receive principal and interest paid on the securities sold, a mortgage dollar roll transaction will diminish the investment performance of a portfolio unless the difference between the price received for the securities sold and the price to be paid for the securities to be purchased in the future, plus any fee income received, exceeds any income, principal payments, and appreciation on the securities sold as part of the mortgage dollar roll. Whether mortgage dollar rolls will benefit a portfolio may depend upon the adviser’s ability to predict mortgage prepayments and interest rates. In addition, the use of mortgage dollar rolls by a portfolio increases the amount of the portfolio’s assets that are subject to market risk, which could increase the volatility of the price of the portfolio’s total value. These transactions are subject to the risk that the counterparty to the transaction may not or be unable to perform in accordance with the terms of the instrument.

ESG/Impact/Green Investing Risk - Strategies that select securities based on responsible investing, “green”, “impact” or environmental, social, and governance (ESG) or similar criteria may forgo certain market opportunities available to strategies or products that do not use these criteria.

High Yield Securities Risk - High yield securities, which are rated below investment grade and commonly referred to as “high yield” securities or “junk” bonds. High yield securities usually offer higher yields than investment grade securities, but also involve more risk. Analysis of the creditworthiness of issuers of high yield securities may be more complex than for issuers of higher rated debt securities. High yield securities may be more susceptible to real or perceived adverse economic conditions than investment grade securities, and they generally have more volatile prices and carry more risk to principal. In addition, high yield securities generally are less liquid than investment grade securities. Any investment in distressed or defaulted securities subjects the portfolio to even greater credit risk than investments in other below-investment grade securities.

Inflation-Protected Municipal Bond Strategy Risk - In addition to other risks, this strategy may entail additional risks described below:

Declining Inflation Risk - Certain inflation-hedging strategies involve the use of Consumer Price Index (CPI) swaps. Such accounts will benefit from a CPI swap if actual inflation during the swap’s period is greater than the level of inflation expected for that period at the time the swap was initiated. However, if actual inflation turns out to be less than expected, the account will lose money on the swap. In such circumstances, the account will underperform an otherwise identical municipal bond account that had not utilized such inflation hedges.

Inflation-Linked Instruments Risk - The returns of CPI swaps or other inflation-linked instruments reflect a specified index of inflation. There can be no assurance that the inflation index used will accurately measure either the actual future rate of inflation or the rate of expected future inflation reflected in the prices and yields of municipal bonds. As a result, an account's inflation-hedging strategy may not perform as expected. CPI swaps may be riskier than other types of investments because they may be more sensitive to changes in economic or market conditions and could result in losses that significantly exceed the account's original investment. CPI swaps create leverage, which may cause the account's value and returns to be more volatile than they would be if the account had not used swaps. CPI swaps also expose the account to counterparty risk, which is the risk that the swap counterparty will not fulfill its contractual obligations.

Inflation-Protected Securities Risk - Interest payments on inflation protected debt securities will vary with the rate of inflation, as measured by a specified index. There can be no assurance that the CPI-U (used as the inflation measure by U.S. Treasury inflation protected securities) or any non-U.S. inflation index will accurately measure the real rate of inflation in the prices of goods and services. Moreover, there can be no assurance that the rate of inflation in a non-U.S. country will be correlated to the rate of inflation in the United States. If the market perceives that the adjustment mechanism of an inflation protected security does not accurately adjust for inflation, the value of the security could be adversely affected. There may be a lag between the time a security is adjusted for inflation and the time interest is paid on that security. This may have an adverse effect on the trading price of the security, particularly during periods of significant, rapid changes in inflation. In addition, to the extent that inflation has increased during the period of time between the inflation adjustment and the interest payment, the interest payment will not be protected from the inflation increase.

Insurance Risk - Many significant providers of insurance for municipal securities have recently incurred significant losses as a result of exposure to sub-prime mortgages and other lower credit quality investments that have experienced recent defaults or otherwise suffered extreme credit deterioration. Such losses have reduced the insurers' capital and called into question their continued ability to perform their obligations under such insurance if they are called upon to do so in the future. The insurance feature of a municipal security is contingent on the ability of the insurer to fulfill its obligations. Therefore, insurance does not completely assure the full payment of principal and interest when due through the life of an insured obligation or the market value of the insured obligation.

Inverse Floaters Risk - The use of inverse floaters by an account creates effective leverage. Due to the leveraged nature of these investments, they will typically be more volatile and involve greater risk than the fixed rate municipal bonds underlying the inverse floaters. An investment in certain inverse floaters will involve the risk that the account could lose more than its original principal investment. Distributions on inverse floaters bear an inverse relationship to short-term municipal bond interest rates. Thus, distributions paid to the account on its inverse floaters will be reduced or even eliminated as short-term municipal interest rates rise and will increase when short-term municipal interest rates fall. Inverse floaters generally will underperform the market for fixed rate municipal bonds in a rising interest rate environment.

Liquidity Risk - The portfolios may invest in lower-quality debt instruments. Lower-quality debt tends to be less liquid than higher-quality debt. If the economy experiences a sudden downturn, or if the debt markets for a particular security become distressed, a portfolio may have particular difficulty selling its assets in sufficient amounts, at reasonable prices and in a sufficiently timely manner.

The secondary market for municipal bonds, and particularly for high-yield municipal bonds, tends to be less well developed and less liquid than many other securities markets. As a result, an account may have to accept a lower price to sell a security, sell other securities to raise cash, or give up an investment opportunity, any of which could have a negative effect on performance. An account may invest a significant portion of its assets in unrated bonds. The market for these bonds may be less liquid than the market for rated bonds of comparable quality.

Loan Risk - In addition to risks generally associated with debt securities, loans, including secured loans, unsecured and/or subordinated loans and loan participations, are subject to other risks. The

lack of an active trading market for certain loans may impair the ability of a portfolio to realize full value in the event of the need to sell a loan and may make it difficult to value such loans. Portfolio transactions in loans may settle in as short as seven days but typically can take up to two or three weeks, and in some cases much longer. As a result of these extended settlement periods, a portfolio may incur losses if it is required to sell other investments or temporarily borrow to meet its cash needs, including satisfying redemption requests.

The amount of public information available with respect to loans is generally less extensive than that available for registered or exchange listed securities. Furthermore, because NAM may wish to invest in the publicly-traded securities of an obligor, it may not have access to material non-public information regarding the obligor to which other investors have access. Loans may not be considered “securities” under the federal securities laws and, as a result, a portfolio may not be entitled to rely on the anti-fraud protections afforded by such laws.

Interests in secured loans have the benefit of collateral and, typically, of restrictive covenants limiting the ability of the borrower to further encumber its assets. However, in periods of high demand by lenders for loan investments, borrowers may limit these restrictive covenants and weaken the ability of lenders to access the collateral securing the loan. Additionally, loans with fewer restrictive covenants may provide the borrower with more flexibility to take actions that may be detrimental to the lender or limit the lender’s ability to declare a default, which may hinder a portfolio’s ability to reprice credit risk associated with the borrower and mitigate potential loss. A portfolio may experience relatively greater realized or unrealized losses or delays and expenses in enforcing its rights with respect to loans with fewer restrictive covenants. There is also a risk that the value of any collateral securing a loan in which a portfolio has an interest may decline and that the collateral may not be sufficient to cover the amount owed on the loan. If the borrower defaults, a portfolio’s access to the collateral may be limited or delayed because of difficulty liquidating the collateral or by bankruptcy or other insolvency laws. The risks associated with unsecured loans, which are not backed by a security interest in any specific collateral, are higher than those for comparable loans that are secured by specific collateral. Interests in loans made to finance highly leveraged companies or transactions such as corporate acquisitions may be especially vulnerable to adverse changes in economic or market conditions. Additionally, because junior loans have a lower place in an issuer’s capital structure and may be unsecured, junior loans involve a higher degree of overall risk than senior loans of the issuer.

An investor in a loan participation may not always have direct recourse against a borrower if the borrower fails to pay scheduled principal and/or interest; may be subject to greater delays, expenses and risks than if the investor had purchased a direct obligation of the borrower; and may be regarded as the creditor of the agent lender (rather than the borrower), subjecting the investor to the creditworthiness of that lender as well and the ability of the lender to enforce appropriate credit remedies against the borrower.

LIBOR is expected to be phased out by the end of 2021. A portfolio’s investments in instruments that pay a floating interest rate based on LIBOR, including any instrument that does not include a provision specifying the replacement reference rate if LIBOR is no longer available (a “*fallback provision*”), may be adversely affected during the transition away from LIBOR by, among other things, increased volatility or illiquidity. There remains uncertainty regarding the future use of LIBOR and the nature of any replacement reference rate and, accordingly, it is difficult to predict the full impact of the transition away from LIBOR.

Mortgage/Asset-Backed Securities Risk - The value of a portfolio’s mortgage-related securities can fall if the owners of the underlying mortgages pay off their mortgages sooner than expected, which could happen when interest rates fall, or later than expected, which could happen when interest rates rise. With respect to asset-backed securities, the payment of interest and the repayment of principal may be impacted by the cash flows generated by the assets backing the securities. Mortgage- and asset-backed securities are also subject to extension risk, which is the risk that rising interest rates could cause mortgages or other obligations underlying the securities to be prepaid more slowly than expected, which would, in effect, convert a short- or medium-duration mortgage- or asset-backed security into a longer-duration security, increasing its sensitivity to interest rate changes and causing its price to decline. A mortgage-backed security may be negatively affected by the quality of the mortgages underlying such security and the structure of its

issuer. For example, if a mortgage underlying a certain mortgage-backed security defaults, the value of that security may decrease. A portfolio may invest in mortgage-backed securities that are not explicitly backed by the full faith and credit of the U.S. government, and there can be no assurance that the U.S. government would provide financial support in situations in which it was not obligated to do so. Mortgage-backed securities issued by a private issuer, such as commercial mortgage-backed securities, generally entail greater risk than obligations directly or indirectly guaranteed by the U.S. government or a government-sponsored entity.

Municipal Bond Market Liquidity Risk - Inventories of municipal bonds held by brokers and dealers have decreased in recent years, lessening their ability to make a market in these securities. This reduction in market making capacity has the potential to decrease an account's ability to buy or sell bonds, and increase bond price volatility and trading costs, particularly during periods of economic or market stress. In addition, recent federal banking regulations may cause certain dealers to reduce their inventories of municipal bonds, which may further decrease an account's ability to buy or sell bonds. As a result, an account may be forced to accept a lower price to sell a security, to sell other securities to raise cash, or to give up an investment opportunity, any of which could have a negative effect on performance. If an account needed to sell large blocks of bonds to raise cash, those sales could further reduce the bonds' prices and hurt performance. Certain strategies invest a significant portion of the account's assets in unrated bonds. The market for these bonds may be less liquid than the market for rated bonds of comparable quality.

Municipal Lease Obligations Risk - Participation interests in municipal leases pose special risks because many leases and contracts contain "non-appropriation" clauses that provide that the governmental issuer has no obligation to make future payments under the lease or contract unless money is appropriated for this purpose by the appropriate legislative body.

Municipal Securities Risk - The values of municipal securities may be adversely affected by local political and economic conditions and developments. Adverse conditions in an industry significant to a local economy could have a correspondingly adverse effect on the financial condition of local issuers. Other factors that could affect municipal securities include a change in the local, state, or national economy, demographic factors, ecological or environmental concerns, statutory limitations on the issuer's ability to increase taxes, and other developments generally affecting the revenue of issuers (for example, legislation or court decisions reducing state aid to local governments or mandating additional services). This risk would be heightened to the extent that a portfolio invests a substantial portion of the below-investment grade quality portion of its portfolio in the bonds of similar projects (such as those relating to the education, health care, housing, transportation, or utilities industries), in industrial development bonds, or in particular types of municipal securities (such as general obligation bonds, municipal lease obligations, private activity bonds or moral obligation bonds) that are particularly exposed to specific types of adverse economic, business or political events. In addition, the amount of public information available about municipal bonds is generally less than for certain corporate equities or bonds, meaning that the investment performance of a portfolio may be more dependent on the analytical abilities of the sub-adviser than portfolios that invest in stock or other corporate investments. To the extent that a portfolio invests a significant portion of its assets in the securities of issuers located in a given state or U.S. territory, it will be disproportionately affected by political and economic conditions and developments in that state or territory and may involve greater risk than portfolios that invest in a larger universe of securities. In addition, economic, political or regulatory changes in that state or territory could adversely affect municipal securities issuers in that state or territory and therefore the value of the investment portfolio.

Preferred Securities Risk - Preferred securities generally are subordinated to bonds and other debt instruments in a company's capital structure and therefore subject to greater credit risk than those debt instruments. In addition, preferred securities are subject to other risks, such as having no or limited voting rights, having distributions deferred or skipped, having floating interest rates or dividends, which may result in a decline in value in a falling interest rate environment, having limited liquidity, changing tax treatments and possibly being issued by companies in heavily regulated industries. Additional special risks include:

Limited voting rights. Generally, preferred security holders have no voting rights with respect to the issuing company unless preferred dividends have been in arrears for a

specified number of periods, at which time the preferred security holders may elect a number of directors to the issuer's board. Generally, once all the arrearages have been paid, the preferred security holders no longer have voting rights. In the case of certain preferred securities issued by trusts or special purpose entities, holders generally have no voting rights, except (i) if the issuer fails to pay dividends for a specified period of time or (ii) if a declaration of default occurs and is continuing. In such an event, preferred security holders generally would have the right to appoint and authorize a trustee to enforce the trust or special purpose entity's rights as a creditor under the agreement with its operating company.

Special redemption rights. In certain circumstances, an issuer of preferred securities may redeem the securities prior to their stated maturity date. For instance, for certain types of preferred securities, a redemption may be triggered by a change in federal income tax or securities laws or by regulatory or major corporate action. As with call provisions, a redemption by the issuer may negatively impact the return of the security held by an account.

Payment deferral. Generally, preferred securities may be subject to provisions that allow an issuer, under certain conditions, to skip ("noncumulative" preferred securities) or defer ("cumulative" preferred securities) distributions without any adverse consequences to the issuer. Non-cumulative preferred securities can skip distributions indefinitely. Cumulative preferred securities typically contain provisions that allow an issuer, at its discretion, to defer distributions payments for up to 10 years. If an account owns a preferred security that is deferring its distribution, the account may be required to report income for tax purposes although it has not yet received such income. In addition, recent changes in bank regulations may increase the likelihood of issuers deferring or skipping distributions.

Subordination. Preferred securities are subordinated to bonds and other debt instruments in a company's capital structure and therefore are subject to greater credit risk than bonds and other debt instruments.

Floating Rate Payments. The dividend or interest rates on preferred securities may be floating, or convert from fixed to floating at a specified future time. The market value of floating rate securities may fall in a declining interest rate environment and may also fall in a rising interest rate environment if there is a lag between the rise in interest rates and the reset. This risk may also be present with respect to fixed rate securities that will convert to a floating rate at a future time. A secondary risk associated with declining interest rates is the risk that income earned by an account on floating rate securities may decline due to lower coupon payments on the floating-rate securities. Finally, many financial instruments use or may use a floating rate based upon the London Interbank Offered Rate, or "*LIBOR*," which is being phased out by the end of 2021. There remains some uncertainty regarding the future utilization of LIBOR and the nature of any replacement rate.

Fixed Rate Payments. The market value of preferred securities with fixed dividends or interest rates may decline in a rising interest rate environment.

Liquidity. Preferred securities may be substantially less liquid than many other securities, such as U.S. government securities or common stock. Less liquid securities involve the risk that the securities will not be able to be sold at the time desired by an account or at prices approximating the values at which the account is carrying the securities on its books.

Financial services industry. The preferred securities market is comprised predominately of securities issued by companies in the financial services industry. Therefore, preferred securities present substantially increased risks at times of financial turmoil, which could affect financial services companies more than companies in other sectors and industries.

Tax risk. Accounts may invest in preferred securities or other securities the federal income tax treatment of which may not be clear or may be subject to recharacterization by the Internal Revenue Service.

Regulatory Risk. Issuers of preferred securities may be in industries that are heavily regulated and that may receive government funding. The value of preferred securities issued by these companies may be affected by changes in government policy, such as increased regulation, ownership restrictions, deregulation, or reduced government funding.

Contingent capital securities involve additional risks as set forth above under “Contingent Capital Security Risk.”

Restricted and Illiquid Securities Risk - Illiquid securities are securities that are not readily marketable. These securities may include restricted securities, which cannot be resold to the public without an effective registration statement under the 1933 Act, or, if they are unregistered, may be sold only in a privately negotiated transaction or pursuant to an exemption from registration. An account may not be able to readily dispose of such securities at prices that approximate those at which the account could sell such securities if they were more widely traded and, as a result of such illiquidity, the account may have to sell other investments or engage in borrowing transactions if necessary to raise cash to meet its obligations. Limited liquidity can also affect the market price of securities, thereby adversely affecting the account value and yield. The financial markets in general have in recent years experienced periods of extreme secondary market supply and demand imbalance, resulting in a loss of liquidity during which market prices were suddenly and substantially below traditional measures of intrinsic value. During such periods, some securities could be sold only at arbitrary prices and with substantial losses. Periods of such market dislocation may occur again at any time.

Risks Related to Changes in Tax Laws - The value of an account's investments may be adversely affected by changes in tax rates and policies, which may be driven by unfavorable changes in tax laws or adverse interpretations by the Internal Revenue Service or state tax authorities, or by noncompliant conduct of a bond issuer. This risk is heightened for municipal bond strategies. Because interest income from municipal securities is normally not subject to regular federal income tax, the attractiveness of municipal securities in relation to other investment alternatives is affected by changes in federal income tax rates or changes in the tax-exempt status of interest income from municipal securities. Any proposed or actual changes in such rates or exempt status, therefore, can significantly affect the demand for and supply, liquidity and marketability of municipal securities. This could in turn affect the account's value and ability to acquire and dispose of municipal securities at desirable yield and price levels. Proposals have been introduced in Congress to restrict or eliminate the federal income tax exemption for interest on municipal securities, and similar proposals may be introduced in the future. Proposed “flat tax” and “value added tax” proposals would also have the effect of eliminating the tax preference for municipal securities. Some of the proposals have applied to interest on municipal securities issued before the date of enactment, which would have adversely affected their value to a material degree. If such a proposal were enacted, the availability of municipal securities for investment by an account and the value of the account's portfolio would be adversely affected. All clients (especially tax-exempt or tax-deferred accounts) are encouraged to consult their own financial advisors and legal and tax professionals on an initial and continuous basis in connection with engaging a manager and selecting a strategy (especially a municipal bond strategy).

Temporary Investment Measures relating to Municipal Bonds - An account may temporarily depart from its normal investment policies and strategies – for instance, by allocating all or a significant percentage of its assets to cash equivalents, short-term investments, or municipal bonds that do not comply with an particular state orientation (e.g., state-specific, state-preference and national-preference (sometimes referred to as “national with secondary state”) portfolios), – in response to adverse or unusual market, economic, political or other conditions. Such conditions could include a temporary decline in the availability of municipal bonds from a particular state. During these periods, the account may not be able to achieve its objectives, including regarding the distribution of income that is exempt from regular federal and state personal income tax.

U.S. Government Securities Risk - Securities issued or guaranteed by U.S. government agencies and instrumentalities are supported by varying degrees of credit but generally are not backed by the full faith and credit of the U.S. government. No assurance can be given that the U.S. government will provide financial support to its agencies and instrumentalities if it is not obligated by law to do so.

U.S. Territory Risk - A portfolio's investments may include municipal bonds issued by U.S. territories such as Puerto Rico, the U.S. Virgin Islands and Guam that pay interest exempt from regular federal and relevant state personal income tax. Accordingly, a portfolio may be adversely affected by local political and economic conditions and developments within these U.S. territories.

Zero Coupon Bonds Risk - As interest on zero coupon bonds is not paid on a current basis, the values of the bonds are subject to greater fluctuations than the value of bonds that distribute income regularly, and may be more speculative than such bonds. Accordingly, the values of zero coupon bonds may be highly volatile as interest rates rise or fall. In addition, while zero coupon bonds generate income for purposes of generally accepted accounting standards, they do not generate cash flow and thus could cause a portfolio to be forced to liquidate securities at an inopportune time in order to distribute cash, as required by certain tax laws.

Additional Regulatory Risk relating to Municipal Bonds - In addition to the various regulatory risks described herein, certain regulations and regulatory initiatives may present additional risks for municipal bonds, the municipal bond markets and municipal bond strategies. The Volcker Rule and the Risk Retention Rule, mandated by the Dodd-Frank Act, may have negative implications with respect to the ability of banks to sponsor TOB trusts and the current structure of TOBs (TOBs are primarily used by Funds and Institutional Separate Accounts). The treatment of municipal bonds under the liquidity coverage ratio (LCR) requirements of Basel III, the international standard for bank capital requirements, also raises risks. The failure to give banks appropriate credit for their municipal bond holdings under such LCR requirements may entail risks to the efficient function of the municipal market and the value of municipal bonds.

Public Real Assets Risks

For Public Real Assets strategies, the following risks are in addition to Equity, Fixed Income and International risks, as applicable.

Frequent Trading Risk - Certain strategies, including many real assets strategies, among others, trade securities frequently. Frequent trading of portfolio securities may produce capital gains, which are taxable to clients when distributed. Frequent trading may also increase the amount of commissions or mark-ups to broker-dealers that a portfolio pays when it buys and sells securities, which may detract from portfolio performance.

Infrastructure Sector Risk - Because infrastructure portfolios concentrate their investments in infrastructure-related securities, the portfolios have greater exposure to adverse economic, regulatory, political, legal, and other changes affecting the issuers of such securities. Infrastructure-related businesses are subject to a variety of factors that may adversely affect their business or operations, including high interest costs in connection with capital construction programs, costs associated with environmental and other regulations, the effects of economic slowdown and surplus capacity, increased competition from other providers of services, uncertainties concerning the availability of fuel at reasonable prices, the effects of energy conservation policies and other factors. Additionally, infrastructure-related entities may be subject to regulation by various governmental authorities and may also be affected by governmental regulation of rates charged to customers, service interruption and/or legal challenges due to environmental, operational or other mishaps and the imposition of special tariffs and changes in tax laws, regulatory policies and accounting standards. There is also the risk that corruption may negatively affect publicly-funded infrastructure projects, especially in emerging markets, resulting in delays and cost overruns.

Master Limited Partnership (MLP) Risk - An investment in an MLP exposes the portfolio to the legal and tax risks associated with investing in partnerships. Accordingly, holders of common units will have limited control and limited voting rights on matters affecting the partnership. Holders of common units may also be subject to potential conflicts of interest with the MLP's general partner, including those arising from incentive distribution payments. Investments held by MLPs may be relatively illiquid, limiting the MLPs' ability to vary their portfolios promptly in response to changes in economic or other conditions, and MLPs may have limited financial resources. Common units of MLPs may trade infrequently and in limited volume, and they may be subject to more abrupt or erratic price movements than common shares of larger or more broadly-based companies. The

portfolio's investment in MLPs also subjects it to the risks associated with the specific industry or industries in which the MLPs invest. MLPs are generally considered interest-rate sensitive investments, and during periods of interest rate volatility, may not provide attractive returns. In addition, there are certain tax risks associated with investments in MLPs. The benefit derived from an investment in an MLP is largely dependent on the MLP being treated as a partnership for federal income tax purposes. A change to current tax law, or a change in the underlying business mix of a given MLP, could result in an MLP being treated as a corporation for federal income tax purposes. If an MLP were treated as a corporation, the MLP would be required to pay federal income tax on its taxable income. This would reduce the amount of cash available for distribution by the MLP, which could result in a reduction of the value of the portfolio's investment in the MLP and lower income to the portfolio. Additionally, since MLPs generally conduct business in multiple states, the portfolio may be subject to income or franchise tax in each of the states in which the partnership does business. The additional cost of preparing and filing the tax returns and paying the related taxes may adversely impact the portfolio's return on its investment in MLPs.

Real Estate Investment Risk - The real estate industry has been subject to substantial fluctuations and declines on a local, regional and national basis in the past that may continue to occur in the future. Real property values and incomes from real property may decline due to general and local economic conditions, overbuilding and increased competition, increases in property taxes and operating expenses, changes in zoning laws, low demand, casualty or condemnation losses, regulatory limitations on rents, changes in neighborhoods and in demographics, increases in market interest rates, or other factors. Factors such as these may adversely affect companies which own and operate real estate directly, companies which lend to them, and companies which service the real estate industry.

Real Estate Securities and Sector Risk - Certain of the portfolios may invest in REITs. Equity REITs will be affected by changes in the value of and income from the properties they own, while mortgage REITs may be affected by the credit quality of the mortgage loans they hold. REITs are also dependent on specialized management skills, which may affect their ability to generate cash flow for operating purposes and to pay distributions. Additionally, REITs may have limited diversification and are subject to the risks associated with obtaining financing for real property. A real estate securities portfolio may invest a majority of its assets in REITs and in the real estate sector. Stocks within specific industries or sectors can periodically perform differently than the overall stock market due to changes impacting that particular industry or sector.

International Risks

The following International risks may be applicable to certain Equity, Fixed Income, Public Real Assets and Asset Allocation strategies.

Correlation Risk - The U.S. and non-U.S. equity markets often rise and fall at different times or by different amounts due to economic or other developments particular to a given country or region. This phenomenon would tend to lower the overall price volatility of a portfolio that included both U.S. and non-U.S. stocks. Sometimes, however, global trends will cause the U.S. and non-U.S. markets to move in the same direction, reducing or eliminating the risk reduction benefit of international investing.

International Investing Risk - Investing in securities or issuers in markets other than the United States involves risks not typically associated with U.S. investing, such as currency risk, risks of trading in non-U.S. securities markets, and political and economic risks.

Currency Risk - Because the non-U.S. securities in which the portfolios invest, with the exception of depositary receipts, generally trade in currencies other than the U.S. dollar, changes in currency exchange rates will affect the value of non-U.S. dollar denominated securities, the value of dividends and interest earned from such securities, and gains and losses realized on the sale of securities. A strong U.S. dollar relative to these other currencies will adversely affect the value of a portfolio. Depositary receipts are also subject to currency risk.

Non-U.S. Securities Market Risk - Securities of many non-U.S. companies or U.S. companies with significant non-U.S. operations may be less liquid and their prices more volatile than securities of comparable U.S. companies. Securities of companies traded in many countries outside the U.S., particularly emerging markets countries, may be subject to further risks due to the inexperience of local investment professionals and financial institutions, the possibility of permanent or temporary termination of trading, and greater spreads between bid and asked prices for securities. In addition, non-U.S. stock exchanges and investment professionals are subject to less governmental regulation, and commissions may be higher than in the United States. Also, there may be delays in the settlement of non-U.S. stock exchange transactions.

Fixed Income Foreign Investment Risk - Investment in fixed income securities or financial instruments of foreign issuers involves increased risks due to adverse issuer, political, regulatory, currency, market or economic developments. These developments may impact the ability of a foreign debt issuer to make timely and ultimate payments on its debt obligations to the portfolio or impair the portfolio's ability to enforce its rights against the foreign debt issuer. Foreign investments may also be less liquid and more difficult to value than investments in U.S. issuers.

Political and Economic Risks - International investing is subject to the risk of political, social, or economic instability in the country of the issuer of a security, the difficulty of predicting international trade patterns, the possibility of the imposition of exchange controls, expropriation, limits on removal of currency or other assets, and nationalization of assets.

The above risks may be heightened for securities of issuers located in emerging markets countries.

Additionally, a portfolio's income from non-U.S. issuers may be subject to non-U.S. withholding taxes. Non-U.S. companies generally are not subject to uniform accounting, auditing, and financial reporting standards or to other regulatory requirements that apply to U.S. companies; therefore, less information may be available to investors concerning non-U.S. issuers. In addition, some countries restrict to varying degrees foreign investment in their securities markets. These restrictions may limit investment in certain countries or may increase the cost of such investments.

Certain strategies gain international investment exposure by investing in American Depositary Receipts ("ADRs"), Global Depositary Receipts ("GDRs") and similar depositary receipts. ADRs are the receipts for the shares of a non-U.S.-based company traded on U.S. exchanges. Accounts of large institutional clients may hold ordinary non-U.S. securities (sometimes referred to as "ORD") directly (instead of or in addition to ADRs). ADR portfolios may have reduced exposure to the range of international investment opportunities available through ordinary non-U.S. securities. ADRs may be more thinly traded in the U.S. than the underlying shares traded in the country of origin, which may increase volatility and affect purchase or sale prices. ADRs do not eliminate the currency and economic risks associated with international investing. GDRs typically are issued by non-U.S. banks or financial institutions and represent an interest in underlying securities issued by either a U.S. or a non-U.S. entity and deposited with the non-U.S. bank or financial institution. To the extent a portfolio invests in ADRs, GDRs and other depositary receipts, a portfolio will be generally subject to substantially all of the same risks as when investing directly in ordinary non-U.S. securities.

Non-U.S. Risk - Non-U.S. issuers or U.S. issuers with significant non-U.S. operations may be subject to risks in addition to or different than those of issuers that are located in or principally operated in the United States due to political, social and economic developments abroad, different regulatory environments and laws, potential seizure by the government of company assets, higher taxation, withholding taxes on dividends and interest and limitations on the use or transfer of portfolio assets. Non-U.S. investments may also have lower liquidity and be more difficult to value than investments in U.S. issuers. These additional risks may be heightened for securities of issuers located in, or with significant operations in, emerging market countries as such countries may have a higher degree of economic instability, unsettled securities laws and inconsistent regulatory systems.

Emerging Markets Risk - The risk of foreign investment often increases in countries with emerging markets. For example, these countries may have more unstable governments than developed countries, and their economies may be based on only a few industries. Because their financial markets may be very small, share prices of financial instruments in emerging market countries may be volatile and difficult to determine. Financial instruments of issuers in these countries may have lower overall liquidity than those of issuers in more developed countries. In addition, foreign investors are subject to a variety of special restrictions in many emerging market countries. Frontier markets are those emerging markets that are considered to be among the smallest, least mature and least liquid, and as a result, the risks of investing in emerging markets are magnified in frontier markets.

Sovereign Debt Risk - Sovereign debt instruments are subject to the risk that a governmental entity may delay or refuse to pay interest or repay principal on its sovereign debt. This may be due to, for example, cash flow problems, insufficient foreign currency reserves, political considerations, the relative size of the governmental entity's debt position in relation to the economy or the failure to put in place economic reforms required by the International Monetary Fund or other multilateral agencies.

Risks

For Multi-Asset Class Investments strategies, the following risks are in addition to General, Equity, Fixed Income, Public Real Assets and International risks, as applicable.

Call Option Risk - The value of call options that an account sells (writes) will fluctuate. The account may not participate in any appreciation of its equity portfolio as fully as it would if the account did not sell call options. In addition, the account will continue to bear the risk of declines in the value of its equity securities.

Currency Risk - The prices of non-U.S. securities traded in U.S. dollars are typically indirectly influenced by currency fluctuations. Changes in currency exchange rates can affect the asset value of a product or account investment, interest earned, and gains or losses realized on the sale of securities.

ESG Investing Risk: Strategies that select securities based on environmental, social, and governance (ESG) criteria, may forgo certain market opportunities available to strategies or products that do not use these criteria.

ETF Risk - An ETF is subject to the risks of the underlying securities that it holds. In addition, as noted above, for index-based ETFs, the performance of an ETF may diverge from the performance of the index (tracking error). ETFs pay fees and expenses (like management fees and operating expenses) that do not apply to an index, and the portfolio will indirectly bear its proportionate share of the ETF's fees and expenses. Moreover, ETF shares may trade at a premium or discount to their net asset value. As ETFs trade on an exchange, they are subject to the risks of any exchange-traded instrument, including: (i) an active trading market for its shares may not develop or be maintained, (ii) market makers or authorized participants may decide to reduce their role or step away from these activities in times of market stress, (iii) the exchange may halt trading of its shares, and (iv) its shares may be delisted from the exchange.

ETN Risk - Like other index-tracking instruments, ETNs are subject to the risk that the value of the index may decline, at times sharply and unpredictably. In addition, ETNs, which are debt instruments, are subject to risk of default by the issuer. This is the major distinction between ETFs and ETNs: while ETFs are subject to market risk, ETNs are subject to both market risk and the risk of default by the issuer. ETNs are also subject to the risk that a liquid secondary market for any particular ETN might not be established or maintained.

Fund Risk - Investing in Funds also subjects a portfolio to the same risks associated with directly investing in securities held by the Fund. Additionally, for index-based Funds (including ETFs), the performance of the fund may diverge from the performance of the index (commonly known as tracking error).

Index Call Option Risk - Because index options are settled in cash, sellers of index call options cannot provide in advance for its potential settlement obligations by acquiring and holding the underlying securities.

Index Methodology Risk - There can be no assurance that the U.S. or any foreign inflation index will accurately measure the real rate of inflation in the prices of goods and services.

Multi-Manager Risk - When allocating assets to underlying managers, the interplay of the various strategies employed by the underlying managers may result in an account holding a significant amount of certain types of securities. This may be beneficial or detrimental to an account's performance depending upon the performance of those securities and the overall economic environment. The managers may make investment decisions that conflict with each other; for example, at any particular time, one manager may be purchasing shares of an issuer whose shares are being sold by another manager. Consequently, the account could indirectly incur transaction costs without accomplishing any net investment result. In addition, the multi-manager approach could increase an account's turnover rate which may result in higher transaction costs and higher taxes.

Statistical Method Risk - Certain allocation strategies attempt to keep their volatility within a specified range using a proprietary statistical method. There can be no assurance that this method will perform as anticipated or enable a strategy to achieve its objective.

Managed Volatility Strategy Risks: the following risks are in addition to General, Equity and International risks, as applicable.

Futures and Swaps Risk - The use of futures contracts and swaps to manage the portfolio's volatility may expose the portfolio to losses (some of which may be sudden) to which it would not otherwise have been exposed if the portfolio held only direct investments in equity securities. For example, if the portfolio holds long positions in futures contracts or total return swaps and there is a decline in the value of the underlying equity index, the value of the futures contract or total return swaps will decline at the same time as the portfolio's direct investments in equity securities, leaving the portfolio in a worse position than if it had held only direct investments in equity securities. Conversely, if the portfolio holds short positions in futures contracts or total return swaps and there is an increase in the value of the underlying equity index, the value of the portfolio's positions will decline and offset any appreciation of the portfolio's direct investments in equity securities. Losses on short positions are theoretically unlimited since there is no limit as to how high the underlying equity index can appreciate in value. In addition, investments in futures contracts and swaps may entail investment exposures that are greater than their cost would suggest. As a result, a small investment in futures contracts or swaps could have a large impact on performance. While the futures contracts utilized by the portfolio are standardized and traded on an exchange, total return swap agreements are privately negotiated and entered into in the over-the-counter market with a single counterparty. When the portfolio enters into such swap agreements it bears the risk that its counterparty will default on its obligations.

Managed Volatility Strategy Risk - There can be no assurance that the quantitative models used to manage the portfolio's volatility will accurately forecast realized volatility levels or enable the portfolio to maintain its targeted volatility range; the actual volatility that the portfolio experiences may be significantly higher than its target. In addition, during periods of strong positive equity market performance, the volatility management strategy can be expected to limit the portfolio's gains when compared to similar strategies that do not attempt to manage volatility.

Retail SMA Program Multiple Strategy Accounts (MSAs) Risks

For MSAs, the following risks are in addition to General, Equity, Fixed Income, Public Real Assets and International risks, as applicable.

MSA Allocation Risk - The MSAs reflect a fixed asset allocation to underlying strategies and managers, and such allocation could perform better or worse than other allocations to underlying strategies and managers.

MSA Multi-Manager Risk - The interplay of the various strategies employed by the underlying managers may result in an account holding a significant amount of certain types of securities. This may be beneficial or detrimental to an account's performance depending upon the performance of those securities and the overall economic environment. The managers may make investment decisions which conflict with each other; for example, at any particular time, one manager may be purchasing shares of an issuer whose shares are being sold by another manager. Consequently, the account could indirectly incur transaction costs without accomplishing any net investment result. In addition, the multi-manager approach could increase an account's turnover rate which may result in higher transaction costs and higher taxes.

MSA Sleeve Active Management Risk - Although the MSAs reflect a fixed asset allocation to underlying strategies and managers, due to active management of the underlying managers with respect to a strategy sleeve, a portfolio is subject to the risk that the investment decisions or trading execution may cause the account to underperform relative to the benchmark index or to portfolios with similar investment objectives managed by other investment managers.

For MSAs that include allocations to Municipal Fixed Income and/or Taxable Fixed Income strategies, please see "Fixed Income Risks" above, as applicable. For MSAs that include allocations to Equity strategies, please see "Equity Risks" above, as applicable. Please also see the Form ADV Part 2A of other underlying Subadvisers applicable to your MSA for a more detailed explanation of the material risks of investment strategies applicable to your account.

* * *

The foregoing list of risk factors does not purport to be a complete enumeration or explanation of the risks involved in an investment strategy. Prospective clients and clients are encouraged to consult their own financial advisors and legal and tax professionals on an initial and continuous basis in connection with selecting and engaging the services of an investment manager for a particular strategy. In addition, due to the dynamic nature of investments and markets, strategies may be subject to additional and different risk factors not discussed herein.

ITEM 9 DISCIPLINARY INFORMATION

There are no legal or disciplinary events that are material to a client's or prospective client's evaluation of or the integrity of NAM or its management persons.

ITEM 10 OTHER FINANCIAL INDUSTRY ACTIVITIES AND AFFILIATIONS

In addition to being registered as an investment adviser with the SEC, NAM is also registered as a commodity trading advisor ("CTA") with the Commodity Futures Trading Commission ("CFTC"), and certain management persons and/or other personnel of NAM are registered as CTA principals or associated persons. When providing advice relating to commodity interests (e.g., futures, options on futures and swaps), depending on the particular strategy and services, NAM may be operating either under its CTA registration or under an exemption or exclusion from registration as a CTA.

Certain management persons and/or other personnel of NAM are registered representatives and associated persons of Nuveen Securities, an affiliated broker-dealer. Additionally, certain management persons and/or other personnel of NAM are registered as principals or associated persons of NAM and/or NFAL, an affiliated commodity pool operator registered with the CFTC and an investment adviser registered with the SEC. NFAL's registration as a commodity pool operator is pending withdrawal, after which management persons and/or other personnel of NAM will no longer be registered as principals or associated persons of NFAL.

As discussed above, NAM is a subsidiary of NFAL, which is an indirect subsidiary of Nuveen, LLC ("Nuveen"). Nuveen is a subsidiary, and represents the Asset Management division, of Teachers Insurance and Annuity Association of America (also known as "TIAA"), a leading financial services

provider. TIAA constitutes the ultimate principal owner of NAM. For additional information on the ownership structure, please see Form ADV Part 1, Schedules A and B.

TIAA's subsidiaries include various financial industry entities, including broker-dealers, other investment advisers, commodity pool operators and/or commodity trading advisors, banking or thrift institutions, insurance companies or agencies, pension consultants, sponsors or syndicators of limited partnerships, and sponsors, general partners, or managing members of pooled investment vehicles, among other entities. For further information on these subsidiaries, please see Exhibit A.

TIAA is considered a control person of NAM and TIAA's other financial industry entities may be considered affiliates of NAM under various other regulatory regimes, including as applicable the Investment Advisers Act of 1940, as amended (the "Advisers Act"), the 1940 Act and the Employee Retirement Income Security Act of 1974 ("ERISA").

NAM is committed to putting the interests of its clients first and seeks to act in a manner consistent with its fiduciary and contractual obligations to its clients and applicable law. At times, NAM may determine, in an exercise of its discretion, to limit or refrain from entering into certain transactions, for some or all clients, in order to seek to avoid a potential conflict of interest, or where the legal, regulatory, administrative or other costs associated with entering into the transaction are deemed by NAM to outweigh the expected benefits. Further, certain regulatory and legal restrictions or limitations and internal policies (including those relating to the aggregation of different account holdings by NAM and its affiliates) may restrict certain investment or voting activities of NAM on behalf of its clients. For example, NAM's investment and proxy voting activities with respect to certain securities, issuers, regulated industries and non-U.S. markets may be restricted where applicable laws or regulations impose limits or burdens with respect to exceeding certain investment thresholds when aggregated with its affiliates.

To the extent permitted by the Advisers Act, the 1940 Act, ERISA, and other law, as applicable, NAM may give advice, take action or refrain from acting in the performance of its duties for certain client accounts that may differ from such advice or action, or the timing or nature of such advice or action, for other client accounts including, for example, for clients subject to one or more regulatory frameworks.

From a business perspective within Nuveen, NAM's business is part of a functional group (known internally as Nuveen Equities & Fixed Income), which seeks to promote alignment and collaboration among certain Nuveen affiliates managing equity and fixed income asset classes. These affiliates include NAM, Teachers Advisors, LLC ("TAL") and TIAA-CREF Investment Management, LLC (the last two referred to collectively as "TIAA Investments"), NWQ Investment Management Company, LLC, Santa Barbara Asset Management, LLC, Winslow Capital Management, LLC, and others. Additionally, effective December 31, 2020, NAM's affiliate known as Symphony Asset Management, LLC was merged into NAM.

From an investment perspective within Nuveen, NAM's municipal fixed income, taxable fixed income, and equities investment services are part of a broader Nuveen organizational framework that seeks to promote greater collaboration among and provide leadership to the respective investment teams. NAM's municipal bond, taxable fixed income, and equity investment teams comprise investment and trading personnel who are "multi-hatted" as employees across NAM, TIAA Investments and/or other affiliates. These teams coordinate and share investment and certain trading processes for client accounts in municipal bond, taxable fixed income, equity (excluding public real assets) strategies. These integrated teams are sometimes referred to as Nuveen Municipals, Nuveen Fixed Income, and Nuveen Equities, respectively.

Multi-hatted personnel face conflicts in providing services to various clients of multiple affiliates, such as in the areas of trade sequencing and allocating opportunities. These conflicts are similar to the conflicts they face in providing services to various clients (including affiliated and proprietary accounts) of a single investment adviser. Through its policies, procedures and practices, NAM seeks to provide for the fair and equitable treatment of its clients. See Item 12.

TIAA affiliates market, distribute, make referrals of, use and/or recommend investment products and services (including funds and pooled investment vehicles, and investment advisory services)

of other affiliates (including NAM), and such affiliates may pay and receive fees and compensation in connection thereto. As a result of the potential additional economic benefit to NAM and/or its affiliates resulting from such activities, there is a potential conflict of interest for NAM, which NAM seeks to mitigate in a variety of ways, depending on the nature of the conflict, such as through oversight of these activities and/or by disclosure in this Brochure. To the extent permitted by applicable law, NAM may delegate some or all of its responsibilities to one or more affiliates, including affiliated investment advisers. NAM's affiliates may likewise delegate some or all responsibilities to NAM. Affiliated broker-dealers and their personnel act as distributors with respect to and/or promote and provide marketing support to affiliated Funds and broker-dealer personnel are internally compensated for those activities. Such distribution activities are subject to the broker-dealer's own procedures.

For certain strategies or accounts, NAM invests in or recommends affiliated Funds. Depending on legal requirements, NAM may waive investment advisory fees on the client assets invested in such Fund, credit the client account for the fees paid by the Fund to NAM or NAM's affiliates, avoid or limit the payment of duplicative fees to NAM and its affiliates through other means, or charge fees both at the Fund level and client account level. Certain separate account strategies that include an allocation to affiliated Funds are available exclusively for NAM managed accounts; termination of such separate account strategies may require a liquidation of such Funds.

NAM serves as sub-adviser to several affiliated U.S. registered open and closed-end Funds, including a family of Funds branded as "Nuveen Funds" for which NFAL serves as adviser. NAM also serves as sub-adviser to other affiliated Funds, including a series of products offered through one or more bank collective trusts under the Nuveen brand, and an investment company with variable capital incorporated with limited liability in Ireland and established as an umbrella fund with segregated liability between funds pursuant to the European Communities (Undertakings for Collective Investment in Transferable Securities ("UCITS")) Regulations, 2011, under the Nuveen brand. NAM also provides investment services (e.g., as adviser, sub-adviser or portfolio consultant) to other Funds, including Funds with the "Nuveen" or "Nuveen Asset Management" brand. NAM serves as managing member, adviser or sub-adviser to one or more private funds or other pooled investment vehicles. NAM, as successor to Symphony, serves as collateral manager to certain CLOs, including CLOs with the "Symphony" or "Nuveen" brand.

For certain strategies, it is expected that, with respect to all or a material portion of an account, NAM will allocate to or recommend itself, affiliated Funds, affiliated products and/or affiliated advisers, and as a result in such case, NAM and its affiliates will retain more fees than if NAM had allocated to or recommended an unaffiliated Fund, product or adviser. Clients should be aware of this potential conflict when engaging NAM, and should consult their own independent professional advisor(s) to determine whether the arrangement is appropriate and in their continuing best interests.

NAM also provides services from time to time to various accounts affiliated with TIAA, including TIAA annuity accounts and TIAA general account. See Item 11 and 12.

As described herein, NAM provides services to multiple proprietary or affiliated Funds or accounts of various sizes and strategies. It is the general policy of NAM that proprietary or affiliated Funds or accounts should receive neither special advantages nor disadvantages. NAM addresses the conflict associated with providing services to both affiliated and unaffiliated Funds/accounts by seeking to act in a manner consistent with its policies and procedures and its fiduciary duty to all clients.

In connection with their association with Nuveen Securities, certain NAM personnel engage in marketing or selling activities with respect to shares or interests in funds and other pooled investment vehicles advised or subadvised by NAM.

NAM's affiliates or shared services units, including Nuveen Services, LLC, provide it with supplemental account administration, trading, operations, client service, sales and marketing, product development and management, risk management, information technology, legal and compliance, human resources, and other corporate, finance or administrative services. NAM may likewise provide services for its affiliates. Certain personnel perform services for both NAM and one

or more NAM affiliates. The scope of certain such services and arrangements varies depending on the particular strategy, distribution channel, program, and client size and type.

NAM uses its affiliated broker-dealer, Nuveen Securities, as clearing agent to facilitate the purchase and sale of certain securities for client accounts in accordance with its policies and procedures. For additional information about NAM's use of its affiliated broker-dealer, see Item 12.

In providing investment advisory services to accounts in certain public real assets strategies, NAM uses portfolio management, research and other resources of one or more non-US affiliates, including Nuveen Hong Kong Limited, Nuveen Singapore Private Limited and/or others, that are not registered with the SEC. Certain of such services are provided through a "participating affiliate" arrangement, as that term is used in relief granted by the SEC staff allowing U.S. registered investment advisers such as NAM to use portfolio management resources of advisory affiliates subject to the regulatory supervision of the registered investment adviser.

ITEM 11 CODE OF ETHICS, PARTICIPATION OR INTEREST IN CLIENT TRANSACTIONS AND PERSONAL TRADING

Code of Ethics

NAM is subject to Nuveen's Code of Ethics (and NAM's Code of Ethics Supplement) (together, the "Code of Ethics"). NAM has adopted policies and procedures designed to detect and prevent conflicts of interest relating to personal trading by its employees, and to ensure that NAM effects transactions for clients in a manner that is consistent with its fiduciary duty to its clients and in accordance with applicable law.

NAM's employees who wish to purchase or sell most types of securities in their personal accounts may do so only in compliance with certain procedures outlined in the Code of Ethics, such as pre-approval by compliance personnel and periodic holdings reporting. Additionally, NAM employees are prohibited from effecting transactions in individual municipal securities. The Code of Ethics also prohibits the misuse of material nonpublic information and confidential information. A copy of the Code of Ethics will be provided upon request of any client or prospective client. Please see the cover page to this Brochure for contact information.

NAM and its related persons may invest in securities for their personal accounts that are also recommended to NAM clients. Potential conflicts arise in this situation because NAM or its related persons may have a material interest in or relationship with the issuer of a security, or may use knowledge about pending or currently considered securities transactions for clients to profit personally. To address these potential conflicts, each employee is required to provide NAM and/or certain related persons with securities trading activity reports and securities holding reports upon commencement of employment and thereafter on a quarterly and annual basis. In addition, employee transactions are subject to limitations regarding the type and timing of transactions, including certain trading prohibitions, and pre-approval and monitoring by compliance professionals and/or certain related persons.

NAM, its employees and its affiliates may give advice and take action in the performance of their duties for some clients that may differ from advice given, or the timing or nature of actions taken, for other clients or for their proprietary or personal accounts.

Subject to the restrictions described above, NAM and its employees may at any time hold, acquire, increase, decrease, dispose of or otherwise deal with positions in investments in which a client account may have an interest from time to time. NAM has no obligation to acquire for a client account a position in any investment which it, acting on behalf of another client, or an employee, may acquire, and the client accounts shall not have first refusal, co-investment or other rights in respect of any such investment.

The following restrictions apply to related persons of NAM who (i) in connection with their regular functions or duties make or participate in making recommendations or decisions concerning the purchase or sale of securities for a client account, or (ii) are natural persons in a control relationship with NAM or its affiliates and obtain information concerning recommendations made to a client

account, portfolio managers, portfolio assistants, securities analysts, traders, or any other persons designated as such by NAM or any affiliated entity (each such person is an "Investment Person"). Investment Persons are subject to a personal trading prohibition during the period starting seven (7) calendar days before and ending seven (7) calendar days after any trade in the same (or related, or equivalent) security on behalf of a client for which he/she has portfolio management responsibility. In some cases, the Investment Person may be required to reverse a trade and/or forfeit an appropriate portion of any profits associated with his or her transaction. These consequences can apply whether or not the trade was pre-approved.

With respect to other related persons that are not Investment Persons, NAM and its advisory affiliates maintain procedures (including certain information barriers) designed generally to provide for independent exercise of investment and voting power.

To the extent the Nuveen Ethics Office determines that there is no material conflict of interest, certain officers and employees of NAM from time to time may engage in outside business activities, including serving on boards of unaffiliated entities.

Proprietary Accounts

NAM, its employees and its affiliates (including TIAA) invest in affiliated Funds or separate account managed by NAM or its affiliates from time to time. Generally, to the extent that NAM or NAM affiliates have funded a separate account or have made a significant investment in an affiliated Fund (e.g., generally equal to or greater than 25% of the affiliated Fund's assets), such separate account or affiliated Fund will be considered a proprietary account for certain regulatory purposes. NAM seeks to manage such accounts in a manner consistent with NAM's fiduciary duty to its other clients to address the potential conflicts of interest resulting from NAM or a NAM affiliate's economic interest in a proprietary account. It is NAM's general policy that proprietary accounts (separate accounts and affiliated Funds) should receive neither special advantages nor disadvantages relative to other client accounts.

Material Non-Public Information

From time to time, NAM receives material non-public information ("MNPI") and becomes subject to limitations on its investment activities relating to the possession of MNPI. Under applicable law, NAM and its personnel are prohibited from improperly disclosing or using MNPI for its own benefit or the benefit of its clients. Possession of MNPI could limit NAM's ability to transact in affected investments, which could be detrimental to client accounts. NAM may in its discretion seek to employ the use of certain approaches or procedures to seek to minimize such limitations, but there is no assurance that NAM will employ such procedures or that such procedures will be effective in alleviating the limitations associated with possessing MNPI.

Cross Trades

NAM believes that cross trading can be beneficial for advisory accounts managed by NAM, particularly in the municipal bond and other fixed income asset classes.

Among accounts in municipal bond strategies, cross trading can also be especially beneficial for retail SMA accounts. Although individual retail SMA accounts are not generally large enough for a single institutional block of bonds within a diversified portfolio, when NAM exercises investment control over an institutional block of bonds that is allocated and held among multiple retail SMA accounts, participating retail SMA accounts can collectively benefit in large part from institutional pricing and execution. Employing cross trading for retail SMA accounts where appropriate can further support this objective because it permits NAM to preserve the integrity of the institutional block while at the same time meeting the needs of both selling and buying accounts. Cross trades enable the participating accounts to engage in a transaction that seeks to more closely replicate an institutional block transaction and avoid the execution and pricing disadvantages associated with odd lot trading.

NAM causes a client account to enter into effects cross trades only in cases where it believes that the cross trade would be in the best interests of both selling and buying accounts. Under NAM's cross transaction policy, the price of a cross trade is set according to one of the following methodologies, the goal of which is seek a fair price for both sides of the cross trade.

With respect to municipal bonds in retail SMA accounts, under normal market conditions, especially when NAM exercises investment control over an institutional block of bonds, bonds would be crossed at an independent evaluation price of a third party pricing service (e.g., S&P/ICE) minus a price adjustment (typically equivalent to 3-8 basis points in yield) that is designed to replicate a typical dealer bid/ask spread for institutional size block of bonds. In certain situations, such as where (i) the third party pricing service evaluation price does not exist; (ii) NAM believes that the third party pricing service's evaluation price does not accurately reflect the current market value (e.g., inaccurate or stale), or (iii) NAM does not exercise investment control over an institutional sized block, NAM uses alternative methodologies. Under one such methodology, NAM puts the bonds out for bid (this process is also referred to as "bid wanted"), in which case the cross price is determined by reference to the high bid. Under another methodology, bonds would be crossed at a price based on the Municipal Market Data (MMD) AAA scale (published by Thomson Reuters), which seeks to capture the offer-side of the market, plus a spread (additional yield) that is designed to reflect the yields of actual market bids observed in the marketplace. NAM believes that this approach is well suited to periods of high market volatility, when the pricing service evaluation price may not keep pace with the market changes and growing bid/ask spreads. In addition the foregoing, NAM reserves the right to consider and use other methods in order to seek a fair price for both parties in light of market conditions and other relevant factors.

With respect to municipal bonds in retail SMA accounts, to the extent that (i) a retail SMA account owns a portion of an institutional size block of bonds over which NAM exercises investment control and has a need to sell all or a portion of such bonds; (ii) there is also an account with a need to buy such bonds; and (iii) NAM determines that the cross trade would be in the best interests of both accounts, NAM may engage in a cross trade. Cross trades enable both the selling account and the buying accounts to engage in a transaction that seeks to more closely replicate an institutional block transaction and avoid the execution and pricing disadvantages associated with odd lot trading. Neither NAM nor any Nuveen affiliate receives any commission, transaction fees or other transactional compensation in connection with effecting cross trades.

NAM also effects cross trades between a CLO fund that it advises and another account, including another CLO fund. Certain CLO funds are considered proprietary accounts as a result of an investment (e.g., equity investment) by NAM affiliates (including TIAA). Where NAM causes a client account to enter into a cross transaction with a CLO that is a proprietary account, the transaction would be considered a principal transaction subject to certain legal requirements under the Advisers Act.

Cross and principal transactions for CLOs are used primarily to rebalance the various CLO portfolios advised by NAM and its affiliated investment advisers in connection with the liquidation of the assets of a CLO transaction, to contribute assets to a CLO from time to time (including as may be structured for purposes of applicable risk retention rules or similar requirements) or to take advantage of other opportunities. Under NAM's policy, any principal or cross transaction for a CLO must be fair and equitable to both parties, executed in accordance with the legal requirements under applicable law and result in a sale price and purchase price equal to the market value of the securities.

Any cross trades involving U.S. registered open-end and closed-end investment companies are carried out in accordance with Rule 17a-7 under the 1940 Act and applicable policies and procedures.

Cross trades involving accounts subject to ERISA are not generally permitted.

Cases may arise where trading or investment personnel do not know or have reason to know the identity of the other side of a trade prior to execution, which may result in NAM-advised accounts selling to other NAM-advised accounts. For example, in seeking best execution, NAM trading and investment personnel at times find it advantageous to use electronic trading platforms (e.g., Bloomberg Tradebook, MarketAxess, etc.), which generally seek to provide the best price under the circumstances. These platforms typically match buyers and sellers among a large universe of market participants based on price. NAM users of such platforms generally do not know or have reason to know the identity of the other side of the trade prior to execution. Additionally, trading or investment personnel may operate independently within different teams and/or for different

accounts, asset classes or strategies in which such personnel generally do not know or have reason to know the identity of the other side of the trade prior to execution. NAM considers the foregoing facts and circumstances, and factors such as the liquidity of the securities, uncoordinated timing of sell/buy transactions and no linkage in transaction fees for sell/buy transactions in determining its treatment of such trades under various regulatory regimes.

For additional information, see Item 10.

ITEM 12 BROKERAGE PRACTICES

Broker-Dealer Selection

In most arrangements, NAM has the authority to make all determinations as to which securities are to be bought or sold, the amounts of the securities to be bought or sold, the broker-dealer to be used and commissions, dealer spreads and other fees to be paid. In executing trades on behalf of clients, NAM seeks best execution under the circumstances of each trade.

When selecting broker-dealers to execute transactions in equity securities, NAM takes into consideration best price (without regard to commissions) and additional factors including, but not limited to, the value, nature and quality of the broker-dealer's services, the broker's participation in commission sharing arrangements through which NAM is able to pay for research products and services, execution capability, commission rate, financial responsibility (including willingness to commit capital), the likelihood of price improvement, the speed of execution and likelihood of execution for limit orders, the ability to minimize market impact, the maintenance of the confidentiality of orders, and responsiveness of the broker-dealer. For equity transactions, the determinative factor is not the lowest possible commission cost, but whether the transaction represents the best qualitative execution under the circumstances. Subject to the satisfaction of its obligation to seek best execution, NAM may also consider the broker-dealer's access to new issues or initial public offerings ("IPOs"). NAM and certain affiliates generally utilize a shared centralized equity trading desk for trading equities for Funds and Institutional Separate Accounts, and a separate shared centralized trading desk for trading equities for Retail SMA Accounts.

For fixed income transactions, NAM takes into consideration best price and execution quality under the circumstances in order to seek best execution. In light of the characteristics of the fixed income market, best execution is not evaluated on a transaction-by-transaction basis, but on an overall basis over an extended period of time. NAM and certain affiliates utilize one or more shared centralized trading desks for trading certain fixed income strategies for Funds and Institutional Separate Accounts, depending on the specific strategy, dollar amount, operational connectivity, and other factors. Other trades for Funds and Institutional Separate Accounts are generally executed independently by NAM investment and trading personnel for a particular strategy. Additionally, NAM generally uses separate trading personnel and desks for Retail SMA Account trades. When NAM personnel or desks trade accounts independently, they could be buying or selling a given security at the same time that another, similar account or strategy, is also buying or selling the same security.

For certain accounts in Leveraged Finance strategies, NAM has retained certain broker/dealers to act as prime broker and execute trades for such accounts subject to best execution, and provide other services.

NAM exercises oversight and policy making responsibility for NAM's equity and fixed brokerage practices through a committee that meets periodically. The exact commission rate paid on a particular agency transaction is within the equity trading desk's discretion exercised within general NAM guidelines.

For municipal bond strategies, NAM periodically ranks broker-dealers on the basis of best execution criteria and other factors, including incidental proprietary research services. In purchasing new issues of municipal securities for client accounts, NAM may designate a portion of the selling concession to certain broker-dealers on the basis of such ranking. The ability to select

among multiple dealers is generally extremely limited in cases where there is a limited supply of municipal bonds with specified desired characteristics (e.g., a certain credit quality, maturity, duration and/or particular state of issue).

For taxable fixed income strategies, NAM seeks best execution based on its consideration of a broker-dealer's services, including the ability to obtain a competitive bid or offer price. NAM generally does not employ the practice of ranking broker-dealers for purposes of selecting a particular broker-dealer for trade execution for taxable fixed income securities.

NAM executes securities and investment transactions through financial firms that use, offer or include products or services of NAM or its affiliates in a particular program or preferred list. NAM does not take into account such business arrangements when selecting firms for securities and investment transactions.

Taxable fixed income trades concerning securities and loans are typically executed on a net yield basis in which the security price includes certain undisclosed compensation to the dealer. Transactions placed through dealers serving as primary market-makers generally reflect the spread between the bid and asked prices, or in some cases, reflect a pre-negotiated spread or concession for riskless principal trades. Securities also may be purchased from underwriters at prices that include underwriting fees. NAM expects that substantially all portfolio transactions for fixed income securities will be effected on a principal (as opposed to an agency) basis and accordingly, does not expect to pay significant amounts of brokerage commissions.

Depending on the terms of the client arrangement, NAM also has the authority to negotiate and enter into investment arrangements with respect to derivatives, including swaps, futures, options and other types of exchange-traded or over-the-counter (OTC) arrangements on behalf of its client accounts. NAM enters into derivatives transactions for a variety of purposes relating to a client's objectives, including to seek an investment opportunity, to hedge a risk (e.g., interest rate risk) or for other investment purposes. Counterparties to these derivatives transactions are selected based on a number of factors, including a pre-existing relationship with NAM or the client, credit rating, execution prices, execution capability with respect to complex derivative structures, reputation, responsiveness and/or other criteria relevant to a particular transaction.

Certain Retail SMA Account programs impose policies and restrictions that limit the trading and investment options that would otherwise be available for Institutional Separate Accounts and Funds. As a result, Retail SMA Accounts may be excluded from potentially attractive trading and investment opportunities. Clients should consult with their financial advisors regarding the terms and features of their Retail SMA Account program.

Use of Affiliated Broker-Dealer

NAM uses Nuveen Securities to clear certain securities (e.g., municipal bond) transactions for separate account clients (including Retail SMA Accounts and Institutional Separate Accounts) where NAM believes that such use does not create a conflict of interest. In such transactions, there will be no change in the security price Nuveen Securities pays or receives and the price NAM's clients pay or receive for the same securities when Nuveen Securities provides the clearing services. Nuveen Securities will not receive any spread, mark-up, mark-down or transaction fee from the client in connection with such service. NAM may reimburse the actual or estimated expenses of Nuveen Securities for providing such services out of its own resources. NAM believes that there are significant advantages for its clients in using Nuveen Securities as a clearing agent for securities transactions, which may include minimizing the chance of error otherwise associated with a large number of individual purchases and delivery instructions, a greater ability to purchase and allocate institutionalized blocks of municipal bonds or other securities to NAM separate accounts, and the potential for price improvements on securities transactions for the benefit of clients. When selling securities for NAM accounts, NAM is similarly able to aggregate all or a portion of the block at Nuveen Securities prior to selling them to a dealer. This practice also has the potential to minimize the opportunity for third party errors, increase overall speed and efficiency, and result in price improvements.

Execution Practices for Legacy Securities

NAM reserves the right to establish policies that limit acceptance of a client's previously acquired securities ("legacy" positions or securities) for account funding or contribution purposes. Where accepted, NAM generally evaluates legacy positions and generally sells all or a portion of such securities to the extent that such securities would not be included in NAM's normal portfolio holdings for such account or otherwise conflict with applicable guidelines (unless such securities are subject to another express arrangement). Depending on the size and characteristics of the legacy position and the then-prevailing markets and other factors, the client may receive a sale price that is less favorable than if the transaction involved a more marketable or liquid position. The client will be responsible for all tax liabilities that result from any sale transactions. As discussed above in Items 4 and 10, for certain programs, NAM utilizes the services of Nuveen Services to perform certain functions, including trading for Retail SMA Accounts based on NAM's directions.

For Retail SMA Accounts, NAM generally determines the timing and manner of disposition of legacy securities used to fund new Retail SMA Accounts, or contributed to existing Retail SMA Accounts, that are incompatible with NAM's long-term investment view or otherwise conflict with applicable guidelines. NAM may sell all or a portion of such securities promptly, or may sell certain such legacy securities promptly (e.g., those that are below certain quality thresholds or maturity requirements) and sell other such legacy securities more gradually and/or opportunistically over the invest-up or other period. As a result of time constraints and lot sizes that may be applicable to sales of legacy securities, and the general unavailability of the full range of trading techniques including aggregation, the prices received in legacy securities transactions may be more or less favorable than the prices that could be attained for sales of securities selected by NAM as part of ongoing management. Generally, a sale of an odd-lot of legacy securities and/or lower quality securities (especially, in the case of municipal bonds) will receive a less favorable price than a sale of a larger round lot and/or higher quality securities. Clients may always sell legacy securities on their own with the assistance of their financial advisor and without reliance on NAM, and use cash to fund a new account or make a contribution to the account. Because these execution practices for legacy securities are generally not part of Nuveen's normal management of client accounts, Nuveen's execution practices, and its review of these trades, will differ from its execution practices and review procedures for current accounts under its ongoing management.

In connection with establishing a new account or account mandate for certain Institutional Separate Accounts, NAM may provide information to the client to assist in the transition to NAM's management, including identifying legacy securities that might appropriately be held by the account.

Execution Practices for the Termination of Accounts

Clients who terminate NAM's services for Retail SMA Accounts may retain securities in their account or instruct NAM to promptly sell the portfolio securities. When following termination and liquidation instructions with respect to equities and taxable fixed income securities, NAM generally directs the execution of sale transactions through the relevant broker-dealer/custodian designated by the client's managed account program in the interest of speed and efficiency, subject to program limitations. When following termination and liquidation instructions for municipal bonds, NAM generally uses third party broker-dealers to sell the bonds, subject to program limitations. As a result of time constraints and lot sizes that may be applicable to these types of sale transactions, and the general unavailability of the full range of trading techniques including aggregation, the prices received in these transactions may be less favorable than the prices that could be attained for sales of securities selected by NAM as part of ongoing management. Generally, a sale of an odd-lot of legacy securities and/or lower quality securities (especially, in the case of municipal bonds) will receive a less favorable price than a sale of a larger round lot and/or higher quality securities. Clients may always retain account securities and/or sell them on their own with the assistance of their financial advisor or a successor investment adviser and without reliance on NAM, subsequent to the effective termination date of NAM's services. NAM has adopted special execution practices for prompt sales of securities in connection with termination as a courtesy to assist clients in closing or transitioning accounts. Because these execution practices are generally not part of Nuveen's normal management of client accounts, Nuveen's execution practices, and its

review of these trades, will differ from its execution practices and review procedures for accounts under its current ongoing management.

Research and Other Soft Dollar Benefits

NAM generally has authority to cause a client account to pay a broker-dealer a commission higher than that which another broker-dealer might have charged for effecting the same transaction (a practice commonly referred to as “paying up”), in recognition of the value of the brokerage and research products and services (“Research Services”) the broker-dealer provides. The broker-dealer may directly provide Research Services to NAM, or may purchase them from a third party for NAM. In such cases, NAM is in effect paying for the Research Services with client commissions - so-called “soft dollars.” When NAM uses soft dollars to obtain Research Services, NAM receives a benefit because it does not have to produce or pay for the Research Services. NAM will only cause an account to pay up if NAM, subject to its overall duty to seek best execution, determines in good faith that the Research Services are eligible brokerage and research under Section 28(e) of the Securities Exchange Act of 1934, and the amount of the commission is reasonable in relation to the value of the Research Services provided, viewed in terms of either that particular transaction or the overall responsibilities of NAM or its affiliates in managing its clients’ accounts.

NAM uses commission sharing arrangements administered by its centralized equity trading desk. Under these arrangements, when NAM pays a commission to an executing broker, a portion of the commission is for execution of the trade (brokerage) and a portion is for Research Services. The broker will allocate the Research Services portion of the commission to a pool of commission credits it maintains. The commission manager, at NAM’s direction, pays Research Services providers for Section 28(e)-eligible research products and services (“Commission Sharing Arrangements”). An executing broker may or may not be a Research Services provider. NAM uses Commission Sharing Arrangements to pay for both proprietary and third party Research Services. The centralized equity trading desk does not select Research Services.

Under NAM’s Commission Sharing Arrangements, Nuveen Equities (the integrated equity investment team of NAM (excluding Public Real Assets) and certain affiliates) aggregates commission credits into a single pool, and allocates the Research Services among the respective Nuveen Equities investment teams based on factors such as asset size of the team’s equity strategy and the strategy’s geographic considerations (e.g., U.S. vs non-U.S.; developed markets vs emerging markets). Commission credits generated by NAM’s Public Real Assets accounts are aggregated into a separate pool to purchase Research Services, which generally support the NAM Public Real Assets investment team. Research Services will not necessarily directly and specifically benefit the particular account(s) that generated the brokerage commissions used to acquire the Research Services.

Research Services consist of products and services including some or all of the following: economic analysis and forecasts, financial market analysis and forecasts, industry and company specific analysis, interest rate forecasts, arbitrage relative valuation analysis of various debt securities, analytical tools for investment research and related consulting services, market data services, meetings arranged by broker-dealers with corporate management teams and spokespersons, as well as industry spokespersons, and other reports, meetings and services that assist in the investment decision-making process.

At least annually, NAM reviews the amount, nature and quality of the Research Services, and sets non-binding total commission targets intended to be used to pay for certain research products and services under the Commission Sharing Arrangement. The designation of such targets, and the receipt of soft dollars benefits generally, creates an incentive for NAM to direct brokerage based on its interest in receiving such soft dollars benefits rather than on its clients’ interest in receiving most favorable execution. NAM’s policies and procedures, and the disclosure provided herein, seek to mitigate such conflict.

NAM will use Research Services to benefit any client of NAM or its affiliates and at times the Research Services will not directly benefit the particular account(s) that generated the brokerage commissions used to acquire the Research Services. For example, NAM uses clients’ equity commissions to pay for Research Services that at times will benefit other accounts of NAM and its

affiliates. Also, some NAM portfolio management, research and trading personnel are multi-hatted employees of one or more affiliated advisers. These employees use Research Services in providing advisory services to the affiliated adviser's accounts, and vice versa. In addition, some NAM accounts, such as clients that direct NAM to use a particular broker-dealer and Retail SMA Accounts, do not generate any commissions used to acquire Research Services but still benefit from Research Services acquired with other accounts' commissions. Additionally, some clients (e.g., Nuveen Funds) limit NAM's use of soft dollars and/or negotiate for lower advisory fees or reimbursements when NAM uses their equity commissions for Research Services.

The Research Services that NAM receives from broker-dealers supplement NAM's own research activities. As a practical matter, in some cases NAM could not, on its own, generate all of the Research Services that broker-dealers provide without materially increasing its expenses. Soft dollar arrangements create a potential conflict by giving NAM an incentive to trade frequently to generate commissions to pay for Research Services, which may not be in the best interests of clients. In some cases, NAM has an incentive to trade actively in certain accounts to obtain Research Services used primarily by other, less frequently traded accounts. NAM attempts to mitigate these potential conflicts through its review and oversight of the use of commissions.

NAM does not acquire Research Services when it trades fixed income (including municipal bond) securities and the broker-dealer is acting as principal. However, at times, a broker will give NAM proprietary research that may be based in part on fixed income (including municipal bond) trading NAM directs to that broker-dealer. Similarly, NAM's trades for clients that follow an index or quantitative strategy, or its execution-only trades, may not generate soft dollars, but at times a broker-dealer will provide NAM proprietary research that is based in part on such trades.

Directed Brokerage

For most accounts for which NAM has investment discretion, NAM generally has brokerage discretion. Under certain circumstances, NAM permits clients to direct brokerage or restrict the use of certain broker-dealers. In the event that a client directs, and NAM agrees, to use (or refrain from using) a particular broker-dealer and/or a client imposes other transaction limitations, NAM may not be able to freely negotiate commissions or dealer spreads or select broker-dealers on the basis of best price and execution for such transactions. In addition, transactions directed in this manner may result in clients foregoing the benefit from savings on execution costs NAM may obtain for its other clients through, for example, negotiating volume discounts on block trades. As a result, such clients may have to pay greater dealer commissions or spreads or receive less favorable net prices than would be the case if NAM were authorized to choose the broker-dealer through which to execute transactions for client accounts. A client who directs brokerage (or otherwise imposes transaction limitations) should periodically review the terms of their arrangements and other arrangements to ensure that such arrangements are in the client's continuing best interest.

Certain Retail SMA Accounts, including Wrap Fee Program Accounts

Under wrap fee programs (and partially-bundled dual contract arrangements where a client has contracted with the sponsor for certain services (typically custody, financial advisory, and certain trading, but excluding investment management) on a bundled basis), clients are not charged separate equity commissions on each trade so long as the program sponsor (or a broker-dealer designated by the sponsor) executes the trade. In these circumstances, a portion of the wrap (or partially-bundled) fee generally is considered as in lieu of commissions or other transaction costs. Where permitted by program terms, NAM may execute a transaction through a broker-dealer other than the program sponsor where NAM believes that such trade would result in the best price and execution under the circumstances. NAM generally trades away from the program sponsor for municipal bond strategies all or substantially all of the time, and may also trade away certain other fixed income strategies (including preferred securities) depending on the particular type and characteristics of the security and marketplace conditions. NAM may also trade away from the sponsor in other asset classes depending on liquidity and market conditions. Except when trading equities with a wrap fee sponsor in a wrap fee program, clients generally incur transaction and other costs and fees in addition to the wrap fee. For municipal bond and other fixed income strategies these fees are generally in the form of mark-ups, mark-downs and spreads (and commissions in the case of certain exchange-traded preferred securities) earned by the relevant

securities broker-dealer (not NAM or a Nuveen affiliate) in addition to the wrap fee payable to the wrap program sponsor. Such transaction and other fees are generally included in the net price of the security and not separately disclosed, and are in addition to, wrap (and partially-bundled) fees. However, in other situations trades will be executed with the program sponsor (or a broker-dealer designated by the sponsor) so as to avoid incurring additional brokerage costs or other transaction costs by using other broker-dealers, in addition to the wrap (or partially-bundled) fee. This is typically the case with equity strategies under normal liquidity and market conditions. Managed accounts programs may impose a significant limitation on the ability of NAM to seek best price and execution by placing trades through other broker dealers. For additional information regarding trading away in a wrap fee program (and partially-bundled dual contract arrangement), a client should contact its financial advisor or program sponsor.

Allocation and Aggregation

General

As discussed below, NAM may aggregate purchases and sales of securities and other investments in a block trade, and allocate securities based on its procedures, which generally seeks a pro rata allocation based on the aggregate requested amounts of such issue by the relevant portfolio managers, subject to exceptions in appropriate circumstances. NAM manages proprietary and related person accounts in the same manner, and does not favor one type of account over the other. NAM periodically reviews its treatment of proprietary accounts to ensure that it does not favor them over client accounts.

Orders are generally aggregated where NAM or its trading professionals believe that such aggregation would be advantageous for client accounts. Among the factors NAM will consider are the timing of the receipt of the orders and any specific instructions relating to the orders and whether the order is administered by a centralized trading desk. The price to a particular client could be higher or lower than the actual price that would otherwise be paid by the client in the absence of aggregation. The transaction costs incurred in the transaction will be shared pro rata based on the extent of each account's participation in the transaction.

NAM may aggregate trades for execution and request that the executing broker "step-out" a portion of the aggregate trade to clients' directed brokers. The executing broker gives up the trades to the directed broker who receives any related commissions and clears, settles and confirms the transaction.

Orders placed for Retail SMA Accounts are generally kept separate from other orders, and may not be included in aggregated institutional orders. Also, as discussed above, trades for accounts where a client directs NAM to use a certain broker-dealer or prohibits NAM from using certain broker-dealers may not be aggregated with other orders for the same security. Transactions for accounts that are not included in a bunched order may be executed before, along with, or after transactions in the same security being executed for other NAM clients. For certain Retail SMA Accounts, administrative support is provided by Nuveen Services, an affiliate of NAM. See Item 10.

NAM endeavors to treat clients fairly and equitably over time with respect to trading sequencing and allocation. Where there are actual or perceived constraints on the use of aggregate orders, such as in the case of discretionary Retail SMA Accounts programs, or where NAM does not handle trading, such as in the case of the delivery of model portfolios, NAM employs, where appropriate, procedures that may include (i) employing the use of one or more execution or order delivery rotations among clients; (ii) executing orders or delivering model recommendations for different clients at approximately the same time; or (iii) other methods as may be developed from time to time. While these procedures are designed to treat clients in a fair and equitable manner over time, on any given order, some accounts may trade before other accounts, and some accounts may receive more favorable pricing than other accounts for the same security.

Equity Securities

For equity securities, NAM's general policy (subject to the exceptions described herein) is that all orders for the same security that are placed simultaneously will be aggregated in a single order in

an effort to obtain best execution at the best price available. An order that is placed subsequent to the entry of an aggregated order for the same security on the trade blotter will generally be added to the unfilled portion of the prior aggregated order to create a new aggregated order.

Orders that are submitted to the equity trading desk pursuant to program trades (*i.e.*, single orders involving multiple securities generally employed for rebalancing) will generally be processed separately from other orders, and will not be included in aggregated orders. Also, as discussed above, trades for Retail SMA Accounts and accounts where a client directs or prohibits the use of a certain broker-dealer may not be bunched with other orders for the same security. Transactions for accounts that are not included in a bunched order may be executed before, along with, or after transactions in the same security being executed for other NAM clients. To the extent that such transactions are effected through different broker-dealers than a bunched order, non-bunched transactions may involve payment of different commissions than bunched transactions.

In addition, bunched and non-bunched transactions are likely to be executed at different times, and at different prices. Where bunched and non-bunched transactions are effected at similar times, they may compete against each other in the market, resulting in higher costs or lower proceeds, or both. Where one group of transactions is affected prior to another group, the prior group of transactions may adversely impact the market price for the latter group of transactions.

Municipal Securities

Retail SMA Accounts. NAM may, at its discretion, aggregate secondary market purchases and sales of municipal securities for Retail SMA Accounts in a block trade, and allocate securities as described below. When determining which accounts are eligible to participate in a block trade, NAM takes into account factors that may include suitability of the investment for the particular client account, investment objective, strategy, style and maturity, credit quality, available cash balance or collateral, and diversification.

Funds and Institutional Accounts. Generally, secondary market trades for Funds and institutional accounts are not managed by a centralized trading desk. Accordingly, while individual portfolio managers may aggregate trades for multiple accounts they manage, in most cases, such trades are not aggregated with trades initiated by other portfolio managers. In circumstances where a portfolio manager has reason to believe that NAM accounts managed by other portfolio managers may be in the market at the same time selling the same security, NAM's central trading desk for new issues will coordinate the selling activity by coordinating and aggregating such sell orders.

Taxable Fixed Income Securities and Derivatives

NAM may, at its discretion, aggregate purchases and sales of taxable fixed income securities (including currencies) or derivatives in a block trade, and allocate securities based on the investment needs of the particular account provided that no account is favored over any other participating account, in an effort to obtain best execution under the circumstances. Any subsequent order created for the same security is then treated as a separate order, which may be aggregated with remaining unfilled orders for the same security, or executed separately. NAM may determine not to aggregate certain orders that relate to portfolio management decisions that are made independently for different accounts, or if it determines that aggregation is not practicable, not required or inconsistent with client direction, or, in its judgment, aggregation would not result in fair treatment to accounts, or best execution of the order. For example, aggregation may not be possible because a security is thinly traded or otherwise not able to be aggregated and allocated among all accounts seeking the investment opportunity or because a client will be limited in, or precluded from, participating in an aggregated trade as a result of that client's specific brokerage or trading arrangements.

Allocation of Secondary Market Trades

NAM has written allocation procedures designed to provide for fair and equitable allocation of securities over time among similar client accounts, including allocations among Funds and separate accounts.

Equity Securities

For partially filled orders of equity securities, NAM will allocate that portion of the trade that has been completed pro rata across the participating accounts in an amount not less than a single share, and a weighted average price and commission will be calculated as described above. To the extent that a pro rata allocation would result in an account receiving less than the minimum lot size used by NAM (currently one share), that account shall be allocated no shares from that partial fill. Shares not allocated as a result of this procedure will be reallocated to the largest account included in the allocation. At the opening of the market on the next business day, the remainder of a partially filled aggregate order will be handled by NAM as described above.

Municipal Securities

Retail SMA Accounts. NAM generally will allocate municipal securities for Retail SMA Accounts based on the strategy (e.g., taking account the relevant state for state-specific, state-preference and national-preference (sometimes referred to as “national with secondary state”) portfolios), account cash balance, security-level and account-level quality, maturity and duration characteristics, AMT status, and other relevant factors including the scarcity of a particular security in light of the particular account objective and strategy. For example, an account with a state-specific municipal bond objective may receive priority for a particular municipal bond over an account with a national municipal bond objective; an account with a higher or longer standing cash balance may receive priority over a comparable account with a lower or shorter cash balance. Although not every client account will participate in every block trade, NAM seeks to treat all client accounts fairly and equitably over time.

Funds and Institutional Accounts. In those instances where NAM aggregates secondary market sell orders, each account participating in the combined order will be allocated sales on a pro rata basis until the order is fully executed or until a decision has been made to change or terminate the order. If a combined order for a security is partially executed, and the order is increased due to additional bonds being added to the order, that will be treated as a new combined order, with participating accounts participating pro rata in the sales of the new combined order. If the selling interest is in multiple CUSIPS of the same or related issuers, the trading desk will decide the sequencing of the multiple individual or combined orders to be least disruptive to the market.

Taxable Fixed Income Securities and Derivatives

NAM allocates taxable fixed income investment opportunities to eligible accounts based on: i) the investment objective of each account; ii) the size of the original order placed for the account; iii) minimum commercial lot sizes for the transaction and security type; iv) relative size of the account; v) current and expected account concentrations and exposures; vi) cash balances; vii) the scarcity of a particular security in light of the particular account objective and strategy; viii) actual or expected liquidity of a security; and ix) other relevant factors. NAM endeavors to allocate securities orders pro rata among similarly situated accounts based on these factors.

Allocation of New Issues

Equity New Issues: NAM may invest client assets in securities in new issues, including equity IPOs. NAM's determination to purchase IPO securities will be made based upon factors that it considers to be relevant including, without limitation, eligibility of an account to participate, the price at which the securities will be offered and the availability of the securities. NAM may receive limited allocations of IPO securities based on commissions generated by its client accounts. NAM has developed Equity IPO allocation policies and procedures (“IPO Allocation Policies”) designed to provide for a fair and equitable allocation over time among its clients that are eligible to participate in IPOs.

In determining whether a client account is eligible to participate in an IPO, NAM will consider all of the relevant factors and circumstances, including portfolio objective, investment strategy, applicable account guidelines and restrictions, and the risk profile of the client. As a result, many accounts will be excluded from equity new issues.

NAM's IPO Allocation Policies provide that equity new issues will be allocated pro rata to those accounts participating in the IPO, based on the relative size of the order placed for each client account that participates in an IPO, subject to certain preferences for accounts in specialty investment strategies that correspond with the IPO sector, industry or asset class.

The availability of IPO securities, especially those of so-called "hot issues," is typically limited. The allocation of IPO securities by the underwriter to investment advisers, such as NAM, generally depends on factors such as the investment adviser's past business with the underwriter, potential business volume and other similar factors. While NAM's ability to receive IPO allocations may be gained partially through the investment activity of all client accounts, many client accounts will not receive IPO securities. Equity IPO securities are generally not available for Retail SMA Accounts.

Because IPO issuers are typically small or mid-sized companies (measured by anticipated market capitalization), and because such investments are subject to a significant amount of risk, NAM believes that IPO securities are not suitable investments for all client accounts. NAM generally participates in IPO securities for its clients when the issue's anticipated market capitalization is consistent with, and permitted by, the investment style, objectives, and risk tolerance of the client. Thus, those accounts that have investment styles and objectives that focus on small- and mid-capitalization companies, and that accept a significant amount of risk, will generally receive IPO allocations. NAM will generally not allocate IPO shares on the basis of a client directed transaction request.

No proprietary accounts will receive favorable treatment as a result of NAM's IPO Allocation Policies, and under NAM's Code of Ethics, accounts of executives and employees of NAM or its affiliates are not permitted to acquire securities in an equity IPO in their personal accounts.

NAM's IPO Allocation Policies generally limit the participation in equity IPO securities by client accounts. These policies serve to mitigate risk by generally limiting clients' exposure to an individual IPO. These policies also assist in achieving a pro rata allocation of IPO securities among clients by having a consistent maximum participation percentage for each client.

Municipal Securities New Issues: New issues of municipal securities are allocated through a municipal bond centralized trading desk pursuant to procedures that are designed to treat all accounts fairly and equitably over time. Generally, if an allotment of a new municipal issue is for less than the total bonds for which NAM placed orders, the total allotment received generally will be allocated pro rata among Funds and Institutional Separate Accounts, on the one hand, and Retail SMA Accounts on the other, based on the number of bonds requested by such accounts, to the extent practicable. The allocation among Retail SMA Accounts will then be made based on several factors, including available cash, maturity and duration of the account relative to portfolio target, national, state specific or state preference characteristics and other considerations with the objective of treating all Retail SMA Accounts fairly over time. The allocation among Funds and Institutional Accounts will generally be made pro rata, based on each account's order size, subject to exceptions. Non pro rata allocations are generally based on specialty mandates that require preferable allocations of certain issues (such as state specific, high yield, ESG or insured bonds) because of the more limited supply of investment opportunities for such mandates, rounding lot sizes, the relative availability of cash (or expected cash), and other factors.

SMA Account program sponsors generally restrict NAM from investing such accounts in bond issues where the sponsor or an affiliate of the sponsor serves as manager or lead (or in some cases, co-manager or co-lead) of the offering. In such cases, Retail SMA Accounts may be excluded from potentially attractive investment opportunities.

Taxable Fixed Income Securities New Issues: NAM allocates new taxable fixed income issues to eligible client accounts based upon its review of the investment objective of each client account, the size of the original order placed by the account, lot size, relative size of the accounts, relative size of the account's portfolio holding of the same or comparable securities, cash balances, and other factors including the scarcity of a particular security in light of the particular account objective and strategy. For example, an account with a primary high yield objective may receive priority for a high yield bond over an account that does not have a primary high yield objective.

SMA Account program sponsors generally restrict NAM from investing such accounts in taxable fixed income issues where the sponsor or an affiliate of the sponsor serves as manager or lead (or in some cases, co-manager or co-lead) of the offering. In such cases, Retail SMA Accounts may be excluded from potentially attractive investment opportunities.

Use of Shared Trading Desks and Personnel

NAM employs the use of shared trading desks and multi-hatted personnel (including most trading for equities, taxable fixed income securities, and municipal bond new issues) that trade for NAM accounts as well as the accounts of other affiliates. These desks and personnel face conflicts, such as in trade sequencing and allocating opportunities, in trading for clients of different affiliates. These conflicts are similar to the conflicts they face in providing services to clients (including affiliated and proprietary accounts) of a single investment adviser. Through its policies, procedures and practices, NAM seeks to provide for the fair and equitable treatment of its and its affiliates' clients. See Item 10.

NAM Trading for affiliates

Where NAM or NAM shared personnel perform trading services for accounts of NAM affiliates (i.e., non-NAM accounts), NAM may consider such accounts as part of the above-described trading practices and procedures in order that such accounts are treated fairly and equitably relative to NAM accounts.

Trade Errors

In the event of a trade error made by NAM, it is NAM's general policy to reimburse clients so that they are restored to their original position. For trade errors identified before settlement, NAM may reallocate the subject securities to the account of another client in accordance with certain procedures designed to mitigate the conflicts of interest associated with such reallocation. Correcting some trade errors may result in losses or gains to NAM or its affiliates.

For trade errors that occur in Retail SMA Accounts, NAM generally does not have the ability to control the ultimate resolution of the trade error. In these instances, the trade error and resolution thereof will be governed by the program sponsor's policies and procedures or directions. Certain program sponsors establish trade error accounts for their programs whereby gains for certain errors in client accounts managed by NAM are offset by losses in other client accounts managed by NAM in the same program(s) over varying time periods. This offsetting of gains with losses could result in a benefit or detriment to NAM.

ITEM 13 REVIEW OF ACCOUNTS

General Description

NAM provides continuous monitoring and oversight of the discretionary accounts it manages, and accounts are reviewed on an exception basis. Accounts are reviewed by the relevant portfolio manager (or overlay portfolio manager in the case of Retail SMA MSAs) and/or other NAM or Nuveen employees to seek to ensure that each account is managed consistent with the strategy and investment criteria applicable to the account in terms of: (i) allocation of portfolio assets; (ii) diversification of portfolio assets; (iii) duration and maturity, for fixed income accounts; and (iv) compliance with any specific restrictions applicable to the account. The composition and number of reviewers vary depending in part on the type of account, amount of assets and nature of investment goals and objectives of client.

For Funds, reviews also may include analysis of security performance, account diversification and cash flow.

In addition to the regular reviews, NAM may also consider the following additional factors, depending on the strategy and account: (i) performance of individual securities or asset classes; (ii) material economic and market events; (iii) changes in a separate account client's financial profile

as communicated to NAM; and (iv) changes recommended in overall investment policy or strategy by NAM's portfolio managers. The number of accounts for which a reviewer is responsible will vary.

Client Reports

Separate Accounts (SMA and Institutional)

NAM provides portfolio reports to the extent agreed with the client, upon reasonable request, or specified under the SMA program agreement. Portfolio reports generally include portfolio holdings and may include performance information. Such reports are not intended to replace a client's custodial account statements as records for official or tax reporting purposes. Clients in wrap fee programs generally receive reports from the wrap fee program sponsor, and not from NAM.

Clients are encouraged to request and review monthly or quarterly account statements (including holdings, asset amounts and transactions during the period) sent directly to a client from their custodian (e.g., broker-dealer, bank or trust company).

NAM's portfolio reports reflect valuations of account assets determined in accordance with NAM's valuation procedures, which generally rely on third party pricing services, but may use other valuation methodologies in certain circumstances. NAM's valuations may differ from valuations reflected in a client's custodial statements. Further, certain securities or investments may be valued differently based on factors such as the type of account, operational systems, and/or client instructions.

NAM also may distribute economic commentaries and other materials periodically. Special reports may be prepared to meet specific client requirements. NAM may provide reports to sponsors, financial intermediaries and certain institutional clients that are not regularly sent to clients regarding performance, portfolio holdings and other portfolio information. Where NAM serves as a sub-adviser to an affiliated adviser, the affiliated adviser would provide any such reports. See Item 4 regarding other reports and materials.

Funds

NAM provides Fund clients (manager or board) with quarterly reports that may include, among other information, holdings and transaction information, performance and attribution analysis, brokerage allocation, soft dollar information, accounting data, portfolio reviews, reviews of diversification, and distribution information, as well as additional information or reports as requested by the Fund manager or board. Fund investors receive shareholder or investor reports in accordance with the terms, conditions and regulatory requirements applicable to the particular Fund.

See also Item 15.

ITEM 14 CLIENT REFERRALS AND OTHER COMPENSATION

In the ordinary course of business, NAM or a related person provides corporate gifts, meals and entertainment such as tickets to cultural and sporting events to personnel of firms that do business with NAM or its affiliates. Such gifts, meals and entertainment provided by NAM or a related person generate a conflict of interest to the extent that they create an incentive for the recipient or beneficiary to use, recommend, offer or include products or services of NAM in a particular program, include NAM in a preferred list of advisers, or refer clients to NAM. In the ordinary course of business NAM employees also are the recipients of corporate gifts, meals and entertainment. NAM's receipt of gifts, meals and entertainment generates a conflict of interest to the extent that they create an incentive for the recipient or beneficiary to use the services of the provider (e.g., in the case of a broker-dealer, brokerage services) of the gifts, meals and entertainment. The giving and receipt of gifts and other benefits are subject to reporting and limitations under internal policies and procedures.

NAM pays fees to consultants for their advice and services, industry information or data, or conference attendance. NAM also pays for certain marketing activities. If a particular payment constitutes, in NAM's judgment, an arrangement subject to requirements under the Advisers Act,

NAM will seek to comply with such requirements. The payment of fees to consultants and marketing entities generates a conflict of interest to the extent that such payment creates an incentive for the recipient or beneficiary to use, recommend, offer or include products or services of NAM in a particular program, include NAM in a preferred list of advisers, or refer clients to NAM.

NAM and/or its affiliates provide free general educational services to financial intermediaries who typically offer or use products or services of NAM and/or its advisory affiliates. NAM and/or its affiliates may make available various financial and educational tools, reports, materials and presentations on current industry topics relevant to a financial advisor. Certain financial tools and illustrations may use data provided by a financial advisor. Materials and services provided by NAM and/or its affiliates are not intended to constitute financial planning, tax, legal, or investment advice and are for educational purposes only. The provision of such services and materials generates a conflict of interest to the extent that such provision creates an incentive for the recipient or beneficiary to use, recommend, offer or include products or services of NAM in a particular program, include NAM in a preferred list of advisers, or refer clients to NAM.

In appropriate instances, NAM and its related persons refer business to each other with respect to each other's products and services. Prospects and clients to whom such referrals have been made should be aware of the conflict inherent in such referral as a result of the common control of such parties. See Item 10.

In the ordinary course of business, NAM (or an affiliate) makes payments to firms or persons that use, recommend, offer or include products or services of NAM (and its affiliates) in a particular program, include NAM (and its affiliates) in a preferred list of advisers, or refer clients to NAM (or its affiliates). The types of payments include, without limitation, conference, program or event attendance, participation or exhibition sponsorship fees; educational and training fees; license, data access, operational or administrative fees; or fees linked to program participation or specific marketing initiatives within an existing program or new program. The amounts of such payments, which are generally made on an enterprise-wide basis, can be significant for certain SMA program sponsor or financial intermediary firm recipients (e.g., up to or in excess of \$1 million annually). NAM (or an affiliate on NAM's behalf) sometimes pays travel, meal and entertainment expenses for a firm's representatives and others who visit NAM's offices or other locations (including hotels and conference centers) to learn about its products and services. The foregoing payments generate a conflict to the extent that they create an incentive for the recipient or beneficiary of the payment to use, recommend, offer or include products or services of NAM in a particular program, include NAM in a preferred list of advisers, or refer clients to NAM.

NAM also makes charitable contributions or underwrites or sponsors charitable events at the request of others. Payments described above vary significantly from firm to firm depending on the nature of NAM's and its affiliated investment advisers' separate account activities with the firm and the amount of the firm's separate account client assets under NAM's and its affiliated investment advisers' management. Such contributions generate a conflict to the extent that they create an incentive for the recipient or beneficiary of the payment to use, recommend, offer or include products or services of NAM in a particular program, include NAM in a preferred list of advisers, or refer clients to NAM. Payments are subject to NAM or a related person's internal review and approval procedures.

SMA Account clients are encouraged to request and review materials from program sponsors (such as a sponsor's program brochure) describing business and financial terms and arrangements between program sponsors and investment advisers. All clients are encouraged to make relevant inquiries of their financial advisory firms and financial advisors, consultants and other intermediaries regarding the arrangements and practices described above.

In addition to the foregoing, with respect to Funds, NAM or an affiliate makes payments to firms or individuals that use, offer or sell shares of the Funds advised by NAM, or place the Funds on a recommended or preferred list. Such Fund-related payments generate a conflict to the extent that they create an incentive for the recipient or beneficiary of the payment to use, offer or sell shares of the Funds advised by NAM, or place the Funds on a recommended or preferred list. Fund investors should review a Fund's prospectus and statement of additional information for important information about such Fund-related payments.

ITEM 15 CUSTODY

Clients should receive quarterly or monthly account statements from the broker-dealer, bank or other financial services firm that serves as qualified custodian to their account(s), and clients should carefully review those statements. Clients who do not receive such account statements are encouraged to follow up directly with their custodian and request such statements. Clients who receive additional reports from NAM are urged to compare these reports to the account statements they receive from the qualified custodian. NAM's reports are generally preliminary and may vary from custodial statements based on accounting procedures, reporting dates, valuation methodologies and other factors. They are not intended to be a substitute for account statements provided by a qualified custodian, and should not be used for official purposes.

In the event of an inadvertent receipt of a check or other financial instrument payable to a client, NAM reserves the right to send the check or instrument to the client or its custodian rather than back to the original sender when it believes that such procedure provides the best overall protection for the underlying assets.

Individual clients who seek to direct transfers or payments from their separate account to third parties (e.g., to pay bills or transfer funds) should directly contact and instruct the account's custodian and/or primary financial advisor. It is generally outside the scope of NAM's authority and services to process or intermediate such instructions.

Clients typically select custodians and negotiate and enter into custody agreements with custodians without NAM's involvement. NAM does not seek to hold client assets or have broad authority to withdraw client assets upon instruction to custodians, and NAM disclaims authority attributed to NAM in custody agreements between clients and custodians to withdraw client assets upon instruction to the custodian. NAM's authority as it relates to custody is generally limited in the ordinary course to customary trading and settlement of securities and investment transactions in the client's account (typically on a "delivery vs payment" basis for securities transactions) as well as deductions for NAM's advisory fee deductions in certain cases, as applicable.

ITEM 16 INVESTMENT DISCRETION

NAM is generally granted discretionary authority to manage securities accounts on behalf of clients. For Institutional Separate Accounts and Retail SMA Accounts through dual contract programs, NAM generally obtains a client's written consent to its discretionary authority with respect to the client's assets in the form of an executed investment management agreement or other comparable services agreement prior to providing discretionary advisory services.

For Retail SMA Accounts through wrap fee programs, NAM is appointed to act as an investment adviser through a process generally documented and administered by the program sponsor. Clients participating in a program, generally with assistance from the sponsor, may select NAM to provide investment advisory services for their account (or a portion thereof) in a particular strategy. NAM provides investment advisory services based upon the particular needs of the client as reflected in information provided to NAM by the sponsor, and will generally make itself available for direct consultations as reasonably requested by clients and/or sponsors. Clients are encouraged to consult their own financial advisors and legal and tax professionals on an initial and continuous basis in connection with selecting and engaging the services of an investment manager in a particular strategy and participating in a wrap or other program. In the course of providing services to program clients who have financial advisors, NAM generally relies on information or directions communicated by the financial advisor acting with apparent authority on behalf of its client.

NAM's discretionary authority over an account is generally subject to directions, guidelines and limitations imposed by the client and, in the case of an SMA Account through a wrap fee program, the program sponsor. NAM will endeavor to follow reasonable directions, investment guidelines and limitations. Although NAM seeks to provide individualized investment advice to its discretionary client accounts, NAM will not be able to accommodate investment restrictions that are unduly burdensome or materially incompatible with NAM's investment approach (including restrictions

affecting more than a stated percentage of the account), and reserves the right to decline to accept, or terminate, client accounts with such restrictions. See Item 4.

In addition to the foregoing, NAM provides its services on a non-discretionary and model portfolio basis.

From time to time, NAM also provides certain services on a consulting basis.

For additional information about NAM's investment advisory services and investment restrictions, see Item 4.

ITEM 17 VOTING CLIENT SECURITIES

Proxy Voting

Except as otherwise directed by a client, NAM is generally authorized to vote proxies for its clients, which may include Funds, as part of its duties as discretionary investment adviser. NAM does not vote proxies where a client withholds proxy voting authority, and in certain non-discretionary and model programs. NAM votes proxies in accordance with its policies and procedures in effect from time to time.

NAM's Proxy Voting Committee ("PVC") provides oversight of NAM's proxy voting policies and procedures, including providing an administrative framework to facilitate and monitor the exercise of such proxy voting, and to fulfill obligations of reporting and recordkeeping under the federal securities laws.

NAM generally relies on one or more proxy advisors to provide it with research, recommendations and/or administrative assistance, and the policies of such proxy advisors set forth NAM's substantive positions on recurring proxy issues and criteria for addressing non-recurring issues. In certain instances, NAM also receives certain proxy advice and information from its affiliate. Even though it has substantively adopted the proxy advisor's policies, NAM maintains the fiduciary responsibility for all of its proxy voting decisions. From time to time, a NAM portfolio manager may initiate action to override a proxy advisor's recommendation for a particular vote. Any such override will be reviewed for material conflicts.

NAM's policy permits it to refrain from voting in certain circumstances, including where it determines that it would be in the client's overall best interest not to vote (e.g., where proxy voting would result in a financial, legal, regulatory, or operational disability or burden that outweighs the potential benefit to the client of voting); with respect to securities on loan through a securities lending program; and with respect to legacy securities and securities in accounts where NAM's advisory services have been terminated.

In special circumstances, as an alternative to reliance on a proxy advisor, NAM may vote a proxy with the consent or based on the instructions of the client or its representative. NAM's ability to vote proxies is subject to timely receipt of the proxy from the client's custodian or other party, and, in the case of proxies relating to certain non-U.S. securities, subject to the client or its custodian establishing any necessary local documentation (e.g., power of attorney).

Day-to-day administration of proxy voting may be provided internally or by a third party service provider, depending on client type, subject to the ultimate oversight of the PVC.

Equity Securities - With respect to equity securities, NAM will vote equity securities in accordance with its policies and procedures discussed above.

Fixed Income Securities - A client may indirectly acquire equity securities that issue proxies. For example, a client may acquire, directly or through a special purpose vehicle, equity securities of a bond obligor whose bonds are already held in a client's account when such bonds have deteriorated or are expected shortly to deteriorate significantly in credit quality. The purpose of acquiring equity securities generally will be to acquire control of the bond issuer (e.g., bond obligor) and to seek to prevent the credit deterioration or facilitate the liquidation or other workout of the

distressed issuer's credit problem. In the course of exercising control of a distressed issuer, NAM may pursue the client's interests in a variety of ways, which may entail negotiating and executing consents, agreements and other arrangements and otherwise influencing the management of the issuer. NAM does not consider such activities proxy voting for purposes of Rule 206(4)-6 under the Advisers Act, but nevertheless provides reports to the relevant parties on its control activities on a quarterly basis.

In the rare event that a fixed income issuer were to issue a proxy or that a client were to receive a proxy issued by a cash management security, and NAM's proxy advisor did not make a voting recommendation, NAM would either vote the securities itself, engage a different proxy advisor to determine how the proxy should be voted, or vote the proxy with the consent or based on the instructions of the client or its representative. NAM would oversee the administration of the voting and ensure that records were maintained in accordance with Rule 206(4)-6, reports were filed as applicable, and the results provided to the relevant parties as appropriate.

NAM recognizes that there are circumstances where it has a perceived or real conflict of interest in voting the proxies of issuers or proxy proponents (e.g., a special interest group) who are clients or potential clients of its affiliates. Directors and officers of such companies may have personal or familial relationships with NAM, its affiliates and/or their employees that could give rise to potential conflicts of interest. NAM will vote proxies in the best interest of its clients regardless of such real or perceived conflicts of interest. NAM attempts to minimize the risk of conflicts by using the services of a proxy advisor and establishing appropriate procedures.

If it is concluded that a material conflict does exist for NAM, the PVC will seek to address the conflict. Such actions could include, but are not limited to: (1) obtaining instructions from the affected clients on how to vote the proxy; (2) disclosing the conflict to the affected clients and seeking their consent to permit NAM to vote the proxy; (3) voting in proportion to the other shareholders; (4) recusing the relevant person associated with the conflict from discussion or consideration of the matter, if the material conflict is due to such person's actual or potential conflict of interest; or (5) following the recommendation of a different proxy advisor.

NAM's clients may contact their relationship manager for a copy of NAM's proxy voting policies and procedures or more information about the proxy voting record for their account.

Legal Proceedings

NAM is under no obligation to advise or act for clients in legal proceedings including bankruptcies and class actions involving securities purchased or held in client accounts. NAM generally notifies or transmits copies of legal materials it receives to the client, program sponsor, client custodian or other client representative.

In special situations primarily relating to distressed or defaulted bonds held by certain institutional or Fund accounts, NAM may engage in reorganization and workout arrangements and other legal matters in order to maximize the value of the particular portfolio holding.

ITEM 18 FINANCIAL INFORMATION

NAM does not require or solicit prepayment of more than \$1,200 in fees per client six months or more in advance and, thus, has not included a balance sheet of its most recent fiscal year. NAM is not aware of any financial condition that is reasonably likely to impair its ability to meet its contractual commitments to clients, nor has NAM been the subject of a bankruptcy petition at any time during the past ten years.

ADDITIONAL INFORMATION

Notice to Canadian Clients

NAM is exempt from registration as an adviser in Ontario as it meets all of the conditions of an “exempt international adviser.” It is required to take certain steps to rely on that exemption, one of which is to provide its clients with notice of certain matters. Notice is hereby given that:

1. NAM is not registered as a “portfolio manager” in any province or territory of Canada.
2. NAM has its head office at 333 West Wacker Drive, Chicago IL 60606 U.S.A.
3. The local address for service of process against NAM in Ontario is Torys, LLP, 79 Wellington St. West, Toronto, Ontario M5K 1N2.
4. There may be difficulty enforcing legal rights against NAM because it is resident outside Canada and all or substantially all of its assets may be situated outside of Canada.

Any nonpublic personal information NAM receives from Canadian clients will be stored in the U.S. and, as a consequence, may become subject to disclosure in accordance with U.S. laws.

EXHIBIT A

Primary Financial Industry Subsidiaries under Nuveen, LLC, the asset management division of TIAA

Entity Name	Primary Financial Industry or Related Affiliation*
AGR Partners, LLC	Registered Investment Adviser
Churchill Asset Management LLC	Registered Investment Adviser
Greenwood Resources Capital Management LLC	Registered Investment Adviser
Gresham Investment Management LLC	Registered Investment Adviser CFTC Registered Commodity Pool Operator CFTC Registered Commodity Trading Advisor
Nuveen Asset Management, LLC	Registered Investment Adviser CFTC Registered Commodity Trading Advisor
Nuveen Fund Advisors, LLC	Registered Investment Adviser
NWQ Investment Management Company, LLC	Registered Investment Adviser
Santa Barbara Asset Management, LLC	Registered Investment Adviser
Symphony Alternative Asset Management LLC	Relying Adviser
Teachers Advisors, LLC	Registered Investment Adviser
Nuveen Alternatives Advisors, LLC	Registered Investment Adviser
Nuveen Churchill Advisors LLC	Registered Investment Adviser
TIAA-CREF Investment Management, LLC	Registered Investment Adviser
Westchester Group Investment Management, Inc.	Property Management
Westchester Group Real Estate, Inc.	Real Estate Broker or Dealer
Winslow Capital Management, LLC	Registered Investment Adviser
Nuveen Securities, LLC	Registered Broker Dealer
Nuveen Services, LLC	Shared services entity
Nuveen Canada Company	Canadian exempt market dealer
Nuveen Real Estate Management Limited	UK FCA registered entity
Nuveen Management AIFM Limited	UK FCA registered entity
Nuveen Hong Kong Limited	HK SFC registered entity
Nuveen Real Estate (Australia) Limited	Australian ASIC registered entity
Nuveen Japan Co. Ltd	Japan FSA registered entity
Nuveen Singapore Private Ltd	Singapore MAS registered entity
Nuveen Alternatives Europe SARL	Luxembourg CSSF registered entity
Nuveen Asset Management Europe SARL	Luxembourg CSSF registered entity

Other Primary Financial Industry Subsidiaries of TIAA

TIAA-CREF Individual & Institutional Services, LLC (aka TIAA-CREF Advice and Planning Services)	Registered Investment Adviser Registered Broker Dealer
TIAA-CREF Tuition Financing, Inc.	Registered Investment Adviser Registered Municipal Advisor
TIAA Endowment and Philanthropic Services, LLC	Registered Investment Adviser
Teachers Insurance and Annuity Association of America	Insurance Company or Agency
TIAA-CREF Life Insurance Company	Insurance Company or Agency
TIAA-CREF Insurance Agency, LLC	Insurance Company or Agency
TIAA, FSB	Banking or thrift institution

*The list above refers to TIAA subsidiaries in financial industry affiliation categories referenced in Form ADV, Part 2A, Item 10.C, excluding numerous entities organized primarily to serve as sponsor, general partner, managing member (or equivalent) or syndicator of one or more pooled investment vehicles or limited partnerships (or equivalent). For a list of such entities that have material arrangements with the registrant, please see the registrant's Form ADV, Part 1, Section 7.A. of Schedule D. The list above refers to the primary financial industry affiliation category and certain TIAA subsidiaries listed above may have additional financial industry affiliations, as further described in its respective disclosure documents (Form ADV, in the case of a registered investment adviser).

PRIVACY POLICY NOTICE

Nuveen Asset Management, LLC considers your privacy our utmost concern. As a Registered Investment Adviser, we are required to provide you with certain information regarding our privacy policies and practices. In order to provide you with individualized service, we collect certain nonpublic personal information about you from information you provide on applications, agreements or other forms (such as your address and, in some cases, information with respect to your financial situation), and information about your account transactions with us (such as purchases, sales and account balances). We may also collect such information through your account inquiries by mail, email, telephone or our web site.

We do not disclose any nonpublic personal information about you to anyone, except as permitted by law. So that we may continue to offer you Nuveen investment products and services that best meet your investing needs, and to effect transactions that you request or authorize, we may disclose the information we collect, as described above, to companies that perform administrative services on our behalf, such as transfer agents, custodians, printers and mailers that assist us in the distribution of written materials. These companies will use this information only for the services for which we hired them, and are not permitted to use or share this information for any other purposes.

If you decide at some point either to close your account(s) or to become an inactive customer, we will continue to adhere to the privacy policies and practices described in this notice.

With regard to our internal security procedures, we restrict access to your personal and account information to those employees who need to know that information to service your account. We maintain physical, electronic and procedural safeguards to protect your nonpublic personal information.

A copy of our privacy notice is posted at <https://www.nuveen.com/privacy>. If you have any questions about our policy or would like additional copies of this notice, please call us toll free at (800) 257-8787 or send us an e-mail through our website www.nuveen.com or write to us at Nuveen at 333 West Wacker Drive, Chicago, IL 60606.

For California residents, please visit the following link for more information:

<https://www.nuveen.com/privacy-ccpa>

For EU/UK residents, please visit the following link for more information:

<https://www.nuveen.com/en-us/resources/nuveen-european-union-united-kingdom-privacy-notice>

For information on our use of personal data in accordance with the Data Protection Law of the Cayman Islands, please visit the following link for more information:

<https://www.nuveen.com/en-us/resources/cayman-islands-privacy-notice>