



## **Vanguard Funds**

**Supplement Dated May 10, 2024, to the Statement of Additional Information**

### **Important Change to Vanguard Funds' Boards of Trustees**

Deanna Mulligan resigned from the boards of trustees of the Vanguard funds effective May 3, 2024.

**PART B**  
**VANGUARD® QUANTITATIVE FUNDS**  
**STATEMENT OF ADDITIONAL INFORMATION**

**January 31, 2024**

This Statement of Additional Information is not a prospectus but should be read in conjunction with the Fund's current prospectus (dated January 31, 2024). To obtain, without charge, a prospectus or the most recent Annual Report to Shareholders, which contains the Fund's [financial statements](#) as hereby incorporated by reference, please contact The Vanguard Group, Inc. (Vanguard).

**Phone: Investor Information Department at 800-662-7447**

**Online: [vanguard.com](http://vanguard.com)**

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**DESCRIPTION OF THE TRUST**

Vanguard Quantitative Funds (the Trust) currently offers the following fund and share classes (identified by ticker symbol):

| <b>Vanguard Fund</b>            | <b>Share Classes<sup>1</sup></b> |                |
|---------------------------------|----------------------------------|----------------|
|                                 | <b>Investor</b>                  | <b>Admiral</b> |
| Vanguard Growth and Income Fund | VQNPX                            | VGIAAX         |

<sup>1</sup> Individually, a class; collectively, the classes.

The Trust has the ability to offer additional funds or classes of shares. There is no limit on the number of full and fractional shares that may be issued for a single fund or class of shares.

## Organization

The Trust was organized as a Maryland corporation in 1986 and was reorganized as a Delaware statutory trust in 1998. Prior to its reorganization as a Delaware statutory trust, the Trust was known as Vanguard Quantitative Portfolios, Inc. The Trust is registered with the United States Securities and Exchange Commission (SEC) under the Investment Company Act of 1940 (the 1940 Act) as an open-end management investment company. Vanguard Growth and Income Fund (the Fund) is classified as diversified within the meaning of the 1940 Act.

## Service Providers

**Custodian.** State Street Bank and Trust Company, One Congress Street, Suite 1, Boston, MA 02114, serves as the Fund's custodian. The custodian is responsible for maintaining the Fund's assets, keeping all necessary accounts and records of Fund assets, and appointing any foreign subcustodians or foreign securities depositories.

**Independent Registered Public Accounting Firm.** PricewaterhouseCoopers LLP, Two Commerce Square, Suite 1800, 2001 Market Street, Philadelphia, PA 19103-7042, serves as the Fund's independent registered public accounting firm. The independent registered public accounting firm audits the Fund's annual financial statements and provides other related services.

**Transfer and Dividend-Paying Agent.** The Fund's transfer agent and dividend-paying agent is Vanguard, P.O. Box 2600, Valley Forge, PA 19482.

## Characteristics of the Fund's Shares

**Restrictions on Holding or Disposing of Shares.** There are no restrictions on the right of shareholders to retain or dispose of the Fund's shares, other than those described in the Fund's current prospectus and elsewhere in this Statement of Additional Information. The Fund or class may be terminated by reorganization into another mutual fund or class or by liquidation and distribution of the assets of the Fund or class. Unless terminated by reorganization or liquidation, the Fund and share classes will continue indefinitely.

**Shareholder Liability.** The Trust is organized under Delaware law, which provides that shareholders of a statutory trust are entitled to the same limitations of personal liability as shareholders of a corporation organized under Delaware law. This means that a shareholder of the Fund generally will not be personally liable for payment of the Fund's debts. Some state courts, however, may not apply Delaware law on this point. We believe that the possibility of such a situation arising is remote.

**Dividend Rights.** The shareholders of each class of the Fund are entitled to receive any dividends or other distributions declared by the Fund for each such class. No shares of the Fund have priority or preference over any other shares of the Fund with respect to distributions. Distributions will be made from the assets of the Fund and will be paid ratably to all shareholders of a particular class according to the number of shares of the class held by shareholders on the record date. The amount of dividends per share may vary between separate share classes of the Fund based upon differences in the net asset values of the different classes and differences in the way that expenses are allocated between share classes pursuant to a multiple class plan approved by the Fund's board of trustees.

**Voting Rights.** Shareholders are entitled to vote on a matter if (1) the matter concerns an amendment to the Declaration of Trust that would adversely affect to a material degree the rights and preferences of the shares of the Fund or any class; (2) the trustees determine that it is necessary or desirable to obtain a shareholder vote; (3) a merger or consolidation, share conversion, share exchange, or sale of assets is proposed and a shareholder vote is required by the 1940 Act to approve the transaction; or (4) a shareholder vote is required under the 1940 Act. The 1940 Act requires a shareholder vote under various circumstances, including to elect or remove trustees upon the written request of shareholders representing 10% or more of the Fund's net assets, to change any fundamental policy of the Fund (please see **Fundamental Policies**), and to enter into certain merger transactions. Unless otherwise required by applicable law, shareholders of the Fund receive one vote for each dollar of net asset value owned on the record date and a fractional vote for each fractional dollar of net asset value owned on the record date. However, only the shares of the Fund or the class affected by a particular matter are entitled to vote on that matter. In addition, each class has exclusive voting rights on any matter submitted to shareholders that relates solely to that class, and each class has separate voting rights on any matter submitted to shareholders in which the interests of one class differ from the interests of another. Voting rights are noncumulative and cannot be modified without a majority vote by the shareholders.

**Liquidation Rights.** In the event that the Fund is liquidated, shareholders will be entitled to receive a pro rata share of the Fund's net assets. In the event that a class of shares is liquidated, shareholders of that class will be entitled to receive a pro rata share of the Fund's net assets that are allocated to that class. Shareholders may receive cash, securities, or a combination of the two.

**Preemptive Rights.** There are no preemptive rights associated with the Fund's shares.

**Conversion Rights.** Fund shareholders may convert their shares to another class of shares of the same Fund upon the satisfaction of any then-applicable eligibility requirements as described in the Fund's current prospectus.

**Redemption Provisions.** The Fund's redemption provisions are described in its current prospectus and elsewhere in this Statement of Additional Information.

**Sinking Fund Provisions.** The Fund has no sinking fund provisions.

**Calls or Assessment.** The Fund's shares, when issued, are fully paid and non-assessable.

**Shareholder Rights.** Any limitations on a shareholder's right to bring an action do not apply to claims arising under the federal securities laws to the extent that any such federal securities laws, rules, or regulations do not permit such limitations.

## **Tax Status of the Fund**

The Fund expects to qualify each year for treatment as a "regulated investment company" under Subchapter M of the Internal Revenue Code of 1986, as amended (the IRC). This special tax status means that the Fund will not be liable for federal tax on income and capital gains distributed to shareholders. In order to preserve its tax status, the Fund must comply with certain requirements relating to the source of its income and the diversification of its assets. If the Fund fails to meet these requirements in any taxable year, the Fund will, in some cases, be able to cure such failure, including by paying a fund-level tax, paying interest, making additional distributions, and/or disposing of certain assets. If the Fund is ineligible to or otherwise does not cure such failure for any year, it will be subject to tax on its taxable income at corporate rates, and all distributions from earnings and profits, including any distributions of net tax-exempt income and net long-term capital gains, will be taxable to shareholders as ordinary income. In addition, the Fund could be required to recognize unrealized gains, pay substantial taxes and interest, and make substantial distributions before regaining its tax status as a regulated investment company.

Dividends received and distributed by the Fund on shares of stock of domestic corporations (excluding Real Estate Investment Trusts (REITs)) and certain foreign corporations generally may be eligible to be reported by the Fund, and treated by individual shareholders, as "qualified dividend income" taxed at long-term capital gain rates instead of at higher ordinary income tax rates. Individuals must satisfy holding period and other requirements in order to be eligible for such treatment. Also, distributions attributable to income earned on the Fund's securities lending transactions, including substitute dividend payments received by the Fund with respect to a security out on loan, will not be eligible for treatment as qualified dividend income.

Taxable ordinary dividends received and distributed by the Fund on its REIT holdings may be eligible to be reported by the Fund, and treated by individual shareholders, as "qualified REIT dividends" that are eligible for a 20% deduction on their federal income tax returns. Individuals must satisfy holding period and other requirements in order to be eligible for this deduction. Without further legislation, the deduction would sunset after 2025. Shareholders should consult their own tax professionals concerning their eligibility for this deduction.

Dividends received and distributed by the Fund on shares of stock of domestic corporations (excluding REITs) may be eligible for the dividends-received deduction applicable to corporate shareholders. Corporations must satisfy certain requirements in order to claim the deduction. Also, distributions attributable to income earned on the Fund's securities lending transactions, including substitute dividend payments received by the Fund with respect to a security out on loan, will not be eligible for the dividends-received deduction.

The Fund may declare a capital gain dividend consisting of the excess (if any) of net realized long-term capital gains over net realized short-term capital losses. Net capital gains for a fiscal year are computed by taking into account any capital loss carryforwards of the Fund. Capital losses may be carried forward indefinitely and retain their character as either short-term or long-term.

## FUNDAMENTAL POLICIES

The Fund is subject to the following fundamental investment policies, which cannot be changed in any material way without the approval of the holders of a majority of the Fund's shares. For these purposes, a "majority" of shares means shares representing the lesser of (1) 67% or more of the Fund's net assets voted, so long as shares representing more than 50% of the Fund's net assets are present or represented by proxy or (2) more than 50% of the Fund's net assets.

**Borrowing.** The Fund may borrow money only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

**Commodities.** The Fund may invest in commodities only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

**Diversification.** With respect to 75% of its total assets, the Fund may not (1) purchase more than 10% of the outstanding voting securities of any one issuer or (2) purchase securities of any issuer if, as a result, more than 5% of the Fund's total assets would be invested in that issuer's securities. This limitation does not apply to obligations of the U.S. government or its agencies or instrumentalities.

**Industry Concentration.** The Fund will not concentrate its investments in the securities of issuers whose principal business activities are in the same industry or group of industries.

**Loans.** The Fund may make loans to another person only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

**Real Estate.** The Fund may not invest directly in real estate unless it is acquired as a result of ownership of securities or other instruments. This restriction shall not prevent the Fund from investing in securities or other instruments (1) issued by companies that invest, deal, or otherwise engage in transactions in real estate or (2) backed or secured by real estate or interests in real estate.

**Senior Securities.** The Fund may not issue senior securities except as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

**Underwriting.** The Fund may not act as an underwriter of another issuer's securities, except to the extent that the Fund may be deemed to be an underwriter within the meaning of the Securities Act of 1933 (the 1933 Act), in connection with the purchase and sale of portfolio securities.

Compliance with the fundamental policies previously described is generally measured at the time the securities are purchased. Unless otherwise required by the 1940 Act (as is the case with borrowing), if a percentage restriction is adhered to at the time the investment is made, a later change in percentage resulting from a change in the market value of assets will not constitute a violation of such restriction. All fundamental policies must comply with applicable regulatory requirements. For more details, see **Investment Strategies, Risks, and Nonfundamental Policies**.

None of these policies prevents the Fund from having an ownership interest in Vanguard. As a part owner of Vanguard, the Fund may own securities issued by Vanguard, make loans to Vanguard, and contribute to Vanguard's costs or other financial requirements. See **Management of the Fund** for more information.

## INVESTMENT STRATEGIES, RISKS, AND NONFUNDAMENTAL POLICIES

Some of the investment strategies and policies described on the following pages and in the Fund's prospectus set forth percentage limitations on the Fund's investment in, or holdings of, certain securities or other assets. Unless otherwise required by law, compliance with these strategies and policies will be determined immediately after the acquisition of such securities or assets by the Fund. Subsequent changes in values, net assets, or other circumstances will not be considered when determining whether the investment complies with the Fund's investment strategies and policies.

The following investment strategies, risks, and policies supplement the Fund's investment strategies, risks, and policies set forth in the prospectus. With respect to the different investments discussed as follows, the Fund may acquire such investments to the extent consistent with its investment strategies and policies.

**Borrowing.** A fund's ability to borrow money is limited by its investment policies and limitations; by the 1940 Act; and by applicable exemptions, no-action letters, interpretations, and other pronouncements issued from time to time by the SEC and its staff or any other regulatory authority with jurisdiction. Under the 1940 Act, a fund is required to maintain continuous asset coverage (i.e., total assets including borrowings, less liabilities exclusive of borrowings) of 300% of the

amount borrowed, with an exception for borrowings not in excess of 5% of the fund's total assets (at the time of borrowing) made for temporary or emergency purposes. Any borrowings for temporary purposes in excess of 5% of the fund's total assets must maintain continuous asset coverage. If the 300% asset coverage should decline as a result of market fluctuations or for other reasons, a fund may be required to sell some of its portfolio holdings within three days (excluding Sundays and holidays) to reduce the debt and restore the 300% asset coverage, even though it may be disadvantageous from an investment standpoint to sell securities at that time.

Borrowing will tend to exaggerate the effect on net asset value of any increase or decrease in the market value of a fund's portfolio. Money borrowed will be subject to interest costs that may or may not be recovered by earnings on the securities purchased with the proceeds of such borrowing. A fund also may be required to maintain minimum average balances in connection with a borrowing or to pay a commitment or other fee to maintain a line of credit; either of these requirements would increase the cost of borrowing over the stated interest rate.

A borrowing transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4 under the 1940 Act.

**Common Stock.** Common stock represents an equity or ownership interest in an issuer. Common stock typically entitles the owner to vote on the election of directors and other important matters, as well as to receive dividends on such stock. In the event an issuer is liquidated or declares bankruptcy, the claims of owners of bonds, other debt holders, and owners of preferred stock take precedence over the claims of those who own common stock.

**Convertible Securities.** Convertible securities are hybrid securities that combine the investment characteristics of bonds and common stocks. Convertible securities typically consist of debt securities or preferred stock that may be converted (on a voluntary or mandatory basis) within a specified period of time (normally for the entire life of the security) into a certain amount of common stock or other equity security of the same or a different issuer at a predetermined price. Convertible securities also include debt securities with warrants or common stock attached and derivatives combining the features of debt securities and equity securities. Other convertible securities with features and risks not specifically referred to herein may become available in the future. Convertible securities involve risks similar to those of both fixed income and equity securities. In a corporation's capital structure, convertible securities are senior to common stock but are usually subordinated to senior debt obligations of the issuer.

The market value of a convertible security is a function of its "investment value" and its "conversion value." A security's "investment value" represents the value of the security without its conversion feature (i.e., a nonconvertible debt security). The investment value may be determined by reference to its credit quality and the current value of its yield to maturity or probable call date. At any given time, investment value is dependent upon such factors as the general level of interest rates, the yield of similar nonconvertible securities, the financial strength of the issuer, and the seniority of the security in the issuer's capital structure. A security's "conversion value" is determined by multiplying the number of shares the holder is entitled to receive upon conversion or exchange by the current price of the underlying security. If the conversion value of a convertible security is significantly below its investment value, the convertible security will trade like nonconvertible debt or preferred stock and its market value will not be influenced greatly by fluctuations in the market price of the underlying security. In that circumstance, the convertible security takes on the characteristics of a bond, and its price moves in the opposite direction from interest rates. Conversely, if the conversion value of a convertible security is near or above its investment value, the market value of the convertible security will be more heavily influenced by fluctuations in the market price of the underlying security. In that case, the convertible security's price may be as volatile as that of common stock. Because both interest rates and market movements can influence its value, a convertible security generally is not as sensitive to interest rates as a similar debt security, nor is it as sensitive to changes in share price as its underlying equity security. Convertible securities are often rated below investment-grade or are not rated, and they are generally subject to a high degree of credit risk.

Although all markets are prone to change over time, the generally high rate at which convertible securities are retired (through mandatory or scheduled conversions by issuers or through voluntary redemptions by holders) and replaced with newly issued convertible securities may cause the convertible securities market to change more rapidly than other markets. For example, a concentration of available convertible securities in a few economic sectors could elevate the sensitivity of the convertible securities market to the volatility of the equity markets and to the specific risks of those sectors. Moreover, convertible securities with innovative structures, such as mandatory-conversion securities and equity-linked securities, have increased the sensitivity of the convertible securities market to the volatility of the equity markets and to the special risks of those innovations, which may include risks different from, and possibly greater than,

those associated with traditional convertible securities. A convertible security may be subject to redemption at the option of the issuer at a price set in the governing instrument of the convertible security. If a convertible security held by a fund is subject to such redemption option and is called for redemption, the fund must allow the issuer to redeem the security, convert it into the underlying common stock, or sell the security to a third party.

**Cybersecurity Risks.** The increased use of technology to conduct business could subject a fund and its third-party service providers (including, but not limited to, investment advisors, transfer agents, and custodians) to risks associated with cybersecurity. In general, a cybersecurity incident can occur as a result of a deliberate attack designed to gain unauthorized access to digital systems. If the attack is successful, an unauthorized person or persons could misappropriate assets or sensitive information, corrupt data, or cause operational disruption. A cybersecurity incident could also occur unintentionally if, for example, an authorized person inadvertently released proprietary or confidential information. Vanguard has developed robust technological safeguards and business continuity plans to prevent, or reduce the impact of, potential cybersecurity incidents. Additionally, Vanguard has a process for assessing the information security and/or cybersecurity programs implemented by a fund's third-party service providers, which helps minimize the risk of potential incidents that could impact a Vanguard fund or its shareholders. Despite these measures, a cybersecurity incident still has the potential to disrupt business operations, which could negatively impact a fund and/or its shareholders. Some examples of negative impacts that could occur as a result of a cybersecurity incident include, but are not limited to, the following: a fund may be unable to calculate its net asset value (NAV), a fund's shareholders may be unable to transact business, a fund may be unable to process transactions, or a fund may be unable to safeguard its data or the personal information of its shareholders.

**Debt Securities.** A debt security, sometimes called a fixed income security, consists of a certificate or other evidence of a debt (secured or unsecured) upon which the issuer of the debt security promises to pay the holder a fixed, variable, or floating rate of interest for a specified length of time and to repay the debt on the specified maturity date. Some debt securities, such as zero-coupon bonds, do not make regular interest payments but are issued at a discount to their principal or maturity value. Debt securities include a variety of fixed income obligations, including, but not limited to, corporate bonds, government securities, municipal securities, convertible securities, mortgage-backed securities, and asset-backed securities. Debt securities include investment-grade securities, non-investment-grade securities, and unrated securities. Debt securities are subject to a variety of risks, such as interest rate risk, income risk, call risk, prepayment risk, extension risk, inflation risk, credit risk, liquidity risk, coupon deferral risk, lower recovery value risk, and (in the case of foreign securities) country risk and currency risk. The reorganization of an issuer under the federal bankruptcy laws or an out-of-court restructuring of an issuer's capital structure may result in the issuer's debt securities being cancelled without repayment, repaid only in part, or repaid in part or in whole through an exchange thereof for any combination of cash, debt securities, convertible securities, equity securities, or other instruments or rights in respect to the same issuer or a related entity.

**Debt Securities—Non-Investment-Grade Securities.** Non-investment-grade securities, also referred to as "high-yield securities" or "junk bonds," are debt securities that are rated lower than the four highest rating categories by a nationally recognized statistical rating organization (e.g., lower than Baa3/P-2 by Moody's Investors Service, Inc. (Moody's) or below BBB-/A-2 by Standard & Poor's Financial Services LLC (Standard & Poor's)) or, if unrated, are determined to be of comparable quality by the fund's advisor. These securities are generally considered to be, on balance, predominantly speculative with respect to capacity to pay interest and repay principal in accordance with the terms of the obligation, and they will generally involve more credit risk than securities in the investment-grade categories. Non-investment-grade securities generally provide greater income and opportunity for capital appreciation than higher quality securities, but they also typically entail greater price volatility and principal and income risk.

Analysis of the creditworthiness of issuers of high-yield securities may be more complex than for issuers of investment-grade securities. Thus, reliance on credit ratings in making investment decisions entails greater risks for high-yield securities than for investment-grade securities. The success of a fund's advisor in managing high-yield securities is more dependent upon its own credit analysis than is the case with investment-grade securities.

Some high-yield securities are issued by smaller, less-seasoned companies, while others are issued as part of a corporate restructuring such as an acquisition, a merger, or a leveraged buyout. Companies that issue high-yield securities are often highly leveraged and may not have more traditional methods of financing available to them. Therefore, the risk associated with acquiring the securities of such issuers generally is greater than is the case with investment-grade securities. Some high-yield securities were once rated as investment-grade but have been downgraded to junk bond status because of financial difficulties experienced by their issuers.

The market values of high-yield securities tend to reflect individual issuer developments to a greater extent than do investment-grade securities, which in general react to fluctuations in the general level of interest rates. High-yield

securities also tend to be more sensitive to economic conditions than are investment-grade securities. An actual or anticipated economic downturn or sustained period of rising interest rates, for example, could cause a decline in junk bond prices because the advent of a recession could lessen the ability of a highly leveraged company to make principal and interest payments on its debt securities. If an issuer of high-yield securities defaults, in addition to risking payment of all or a portion of interest and principal, a fund investing in such securities may incur additional expenses to seek recovery.

The secondary market on which high-yield securities are traded may be less liquid than the market for investment-grade securities. Less liquidity in the secondary trading market could adversely affect the ability of a fund's advisor to sell a high-yield security or the price at which a fund's advisor could sell a high-yield security, and it could also adversely affect the daily net asset value of fund shares. When secondary markets for high-yield securities are less liquid than the market for investment-grade securities, it may be more difficult to value the securities because such valuation may require more research, and elements of judgment may play a greater role in the valuation of the securities.

Except as otherwise provided in a fund's prospectus, if a credit rating agency changes the rating of a portfolio security held by a fund, the fund may retain the portfolio security if the advisor deems it in the best interests of shareholders.

**Depository Receipts.** Depository receipts (also sold as participatory notes) are securities that evidence ownership interests in a security or a pool of securities that have been deposited with a "depository." Depository receipts may be sponsored or unsponsored and include American Depositary Receipts (ADRs), European Depositary Receipts (EDRs), and Global Depositary Receipts (GDRs). For ADRs, the depository is typically a U.S. financial institution, and the underlying securities are issued by a foreign issuer. For other depository receipts, the depository may be a foreign or a U.S. entity, and the underlying securities may have a foreign or a U.S. issuer. Depository receipts will not necessarily be denominated in the same currency as their underlying securities. Generally, ADRs are issued in registered form, denominated in U.S. dollars, and designed for use in the U.S. securities markets. Other depository receipts, such as GDRs and EDRs, may be issued in bearer form and denominated in other currencies, and they are generally designed for use in securities markets outside the United States. Although the two types of depository receipt facilities (sponsored and unsponsored) are similar, there are differences regarding a holder's rights and obligations and the practices of market participants.

A depository may establish an unsponsored facility without participation by (or acquiescence of) the underlying issuer; typically, however, the depository requests a letter of nonobjection from the underlying issuer prior to establishing the facility. Holders of unsponsored depository receipts generally bear all the costs of the facility. The depository usually charges fees upon the deposit and withdrawal of the underlying securities, the conversion of dividends into U.S. dollars or other currency, the disposition of noncash distributions, and the performance of other services. The depository of an unsponsored facility frequently is under no obligation to distribute shareholder communications received from the underlying issuer or to pass through voting rights to depository receipt holders with respect to the underlying securities.

Sponsored depository receipt facilities are created in generally the same manner as unsponsored facilities, except that sponsored depository receipts are established jointly by a depository and the underlying issuer through a deposit agreement. The deposit agreement sets out the rights and responsibilities of the underlying issuer, the depository, and the depository receipt holders. With sponsored facilities, the underlying issuer typically bears some of the costs of the depository receipts (such as dividend payment fees of the depository), although most sponsored depository receipt holders may bear costs such as deposit and withdrawal fees. Depositories of most sponsored depository receipts agree to distribute notices of shareholder meetings, voting instructions, and other shareholder communications and information to the depository receipt holders at the underlying issuer's request.

For purposes of a fund's investment policies, investments in depository receipts will be deemed to be investments in the underlying securities. Thus, a depository receipt representing ownership of common stock will be treated as common stock. Depository receipts do not eliminate all of the risks associated with directly investing in the securities of foreign issuers.

**Derivatives.** A derivative is a financial instrument that has a value based on—or "derived from"—the values of other assets, reference rates, or indexes. Derivatives may relate to a wide variety of underlying references, such as commodities, stocks, bonds, interest rates, currency exchange rates, and related indexes. Derivatives include futures contracts and options on futures contracts, certain forward-commitment transactions, options on securities, caps, floors, collars, swap agreements, and certain other financial instruments. Some derivatives, such as futures contracts and certain options, are traded on U.S. commodity and securities exchanges, while other derivatives, such as swap agreements, may be privately negotiated and entered into in the over-the-counter market (OTC Derivatives) or may be cleared through a clearinghouse (Cleared Derivatives) and traded on an exchange or swap execution facility. As a result



of the Dodd-Frank Wall Street Reform and Consumer Protection Act (the Dodd-Frank Act), certain swap agreements, such as certain standardized credit default and interest rate swap agreements, must be cleared through a clearinghouse and traded on an exchange or swap execution facility. This could result in an increase in the overall costs of such transactions. While the intent of derivatives regulatory reform is to mitigate risks associated with derivatives markets, the regulations could, among other things, increase liquidity and decrease pricing for more standardized products while decreasing liquidity and increasing pricing for less standardized products. The risks associated with the use of derivatives are different from, and possibly greater than, the risks associated with investing directly in the securities or assets on which the derivatives are based.

Derivatives may be used for a variety of purposes, including—but not limited to—hedging, managing risk, seeking to stay fully invested, seeking to reduce transaction costs, seeking to simulate an investment in equity or debt securities or other investments, and seeking to add value by using derivatives to more efficiently implement portfolio positions when derivatives are favorably priced relative to equity or debt securities or other investments. Some investors may use derivatives primarily for speculative purposes while other uses of derivatives may not constitute speculation. There is no assurance that any derivatives strategy used by a fund's advisor will succeed. The other parties to a fund's OTC Derivatives contracts (usually referred to as "counterparties") will not be considered the issuers thereof for purposes of certain provisions of the 1940 Act and the IRC, although such OTC Derivatives may qualify as securities or investments under such laws. A fund's advisor(s), however, will monitor and adjust, as appropriate, the fund's credit risk exposure to OTC Derivative counterparties.

Derivative products are highly specialized instruments that require investment techniques and risk analyses different from those associated with stocks, bonds, and other traditional investments. The use of a derivative requires an understanding not only of the underlying instrument but also of the derivative itself, without the benefit of observing the performance of the derivative under all possible market conditions.

When a fund enters into a Cleared Derivative, an initial margin deposit with a Futures Commission Merchant (FCM) is required. Initial margin deposits are typically calculated as an amount equal to the volatility in market value of a Cleared Derivative over a fixed period. If the value of the fund's Cleared Derivatives declines, the fund will be required to make additional "variation margin" payments to the FCM to settle the change in value. If the value of the fund's Cleared Derivatives increases, the FCM will be required to make additional "variation margin" payments to the fund to settle the change in value. This process is known as "marking-to-market" and is calculated on a daily basis.

For OTC Derivatives, a fund is subject to the risk that a loss may be sustained as a result of the insolvency or bankruptcy of the counterparty or the failure of the counterparty to make required payments or otherwise comply with the terms of the contract. Additionally, the use of credit derivatives can result in losses if a fund's advisor does not correctly evaluate the creditworthiness of the issuer on which the credit derivative is based.

Derivatives may be subject to liquidity risk, which exists when a particular derivative is difficult to purchase or sell. If a derivative transaction is particularly large or if the relevant market is illiquid (as is the case with certain OTC Derivatives), it may not be possible to initiate a transaction or liquidate a position at an advantageous time or price.

Derivatives may be subject to pricing or "basis" risk, which exists when a particular derivative becomes extraordinarily expensive relative to historical prices or the prices of corresponding cash market instruments. Under certain market conditions, it may not be economically feasible to initiate a transaction or liquidate a position in time to avoid a loss or take advantage of an opportunity.

Because certain derivatives have a leverage component, adverse changes in the value or level of the underlying asset, reference rate, or index can result in a loss substantially greater than the amount invested in the derivative itself. Certain derivatives have the potential for unlimited loss, regardless of the size of the initial investment. A derivative transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

Like most other investments, derivative instruments are subject to the risk that the market value of the instrument will change in a way detrimental to a fund's interest. A fund bears the risk that its advisor will incorrectly forecast future market trends or the values of assets, reference rates, indexes, or other financial or economic factors in establishing derivative positions for the fund. If the advisor attempts to use a derivative as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the derivative will have or will develop imperfect or no correlation with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies

involving derivative instruments can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many derivatives (in particular, OTC Derivatives) are complex and often valued subjectively. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

On October 28, 2020, the Securities and Exchange Commission adopted new regulations governing the use of derivatives by registered investment companies (“Rule 18f-4”). The Fund was required to implement and comply with Rule 18f-4 by August 19, 2022. Rule 18f-4 imposes limits on the amount of derivatives a fund can enter into, eliminates the asset segregation framework currently used by funds to comply with Section 18 of the 1940 Act, as amended, treats derivatives as senior securities, and requires funds whose use of derivatives is more than a limited specified exposure amount to establish and maintain a comprehensive derivatives risk management program and appoint a derivatives risk manager.

The Fund intends to comply with Rule 4.5 under the Commodity Exchange Act (CEA), under which a fund may be excluded from the definition of the term Commodity Pool Operator (CPO) if the fund meets certain conditions such as limiting its investments in certain CEA-regulated instruments (e.g., futures, options, or swaps) and complying with certain marketing restrictions. Accordingly, Vanguard is not subject to registration or regulation as a CPO with respect to the Fund under the CEA. The Fund will only enter into futures contracts and futures options that are traded on a U.S. or foreign exchange, board of trade, or similar entity or that are quoted on an automated quotation system.

**Environmental, Social, and Governance (ESG) Considerations.** ESG risk factors, either quantitative or qualitative, may be used as a component of certain funds’ investment processes as a means to assess long-term risk to shareholder value (e.g., risk analysis, credit analysis, or investment opportunities) as the advisor deems appropriate. The weight given to ESG factors may vary across types of investments, industries, regions, and issuers; may change over time; and not every ESG factor may be identified or evaluated. Consideration of ESG factors may affect a fund’s exposure to certain issuers or industries. The advisor’s assessment of an issuer may differ from that of other funds or an investor’s assessment of such issuer. As a result, securities selected by the advisor may not reflect the beliefs and values of any particular investor. The advisor may be dependent on the availability of timely, complete, and accurate ESG data being reported by issuers and/or third-party research providers to evaluate ESG factors. ESG factors are often not uniformly measured or defined, which could impact an advisor’s ability to assess an issuer. Where ESG risk factor analysis is used as one part of an overall investment process (as may be the case for actively managed funds included in this Statement of Additional Information), such funds may still invest in securities of issuers that all market participants may not view as ESG-focused or that may be viewed as having a high ESG risk profile.

A fund’s advisor may consider environmental risks such as climate change to be a material risk to many companies and their shareholders’ long-term financial success. As a result, the advisor may engage with particular issuers held by a fund to discuss science-based targets that address long-term risk to shareholder value resulting from climate change, as long as such targets are not contrary to the investment objective and strategy of the fund.

**Exchange-Traded Funds.** A fund may purchase shares of exchange-traded funds (ETFs). Typically, a fund would purchase ETF shares for the same reason it would purchase (and as an alternative to purchasing) futures contracts: to obtain exposure to all or a portion of the stock or bond market. ETF shares enjoy several advantages over futures. Depending on the market, the holding period, and other factors, ETF shares can be less costly and more tax-efficient than futures. In addition, ETF shares can be purchased for smaller sums, offer exposure to market sectors and styles for which there is no suitable or liquid futures contract, and do not involve leverage.

An investment in an ETF generally presents the same principal risks as an investment in a conventional fund (i.e., one that is not exchange-traded) that has the same investment objective, strategies, and policies. The price of an ETF can fluctuate within a wide range, and a fund could lose money investing in an ETF if the prices of the securities owned by the ETF go down. In addition, ETFs are subject to the following risks that do not apply to conventional funds: (1) the market price of an ETF’s shares may trade at a discount or a premium to their net asset value; (2) an active trading market for an ETF’s shares may not develop or be maintained; and (3) trading of an ETF’s shares may be halted by the activation of individual or marketwide trading halts (which halt trading for a specific period of time when the price of a particular security or overall market prices decline by a specified percentage). Trading of an ETF’s shares may also be halted if the shares are delisted from the exchange without first being listed on another exchange or if the listing exchange’s officials determine that such action is appropriate in the interest of a fair and orderly market or for the protection of investors.

Most ETFs are investment companies. Therefore, a fund's purchases of ETF shares generally are subject to the limitations on, and the risks of, a fund's investments in other investment companies, which are described under the heading "*Other Investment Companies.*"

**Foreign Securities.** Typically, foreign securities are considered to be equity or debt securities issued by entities organized, domiciled, or with a principal executive office outside the United States, such as foreign corporations and governments. Securities issued by certain companies organized outside the United States may not be deemed to be foreign securities if the company's principal operations are conducted from the United States or when the company's equity securities trade principally on a U.S. stock exchange. Foreign securities may trade in U.S. or foreign securities markets. A fund may make foreign investments either directly by purchasing foreign securities or indirectly by purchasing depositary receipts or depositary shares of similar instruments (depositary receipts) for foreign securities. Direct investments in foreign securities may be made either on foreign securities exchanges or in the over-the-counter (OTC) markets. Investing in foreign securities involves certain special risk considerations that are not typically associated with investing in securities of U.S. companies or governments.

Because foreign issuers are not generally subject to uniform accounting, auditing, and financial reporting standards and practices comparable to those applicable to U.S. issuers, there may be less publicly available information about certain foreign issuers than about U.S. issuers. Evidence of securities ownership may be uncertain in many foreign countries. As a result, there are risks that could result in a loss to the fund, including, but not limited to, the risk that a fund's trade details could be incorrectly or fraudulently entered at the time of a transaction. Securities of foreign issuers are generally more volatile and less liquid than securities of comparable U.S. issuers, and foreign investments may be effected through structures that may be complex or confusing. In certain countries, there is less government supervision and regulation of stock exchanges, brokers, and listed companies than in the United States. The risk that securities traded on foreign exchanges may be suspended, either by the issuers themselves, by an exchange, or by government authorities, is also heightened. In addition, with respect to certain foreign countries, there is the possibility of expropriation or confiscatory taxation, political or social instability, war, terrorism, nationalization, limitations on the removal of funds or other assets, or diplomatic developments that could affect U.S. investments in those countries. Additionally, the imposition of economic or other sanctions on the United States by a foreign country, or on a foreign country or issuer by the United States, could impair a fund's ability to buy, sell, hold, receive, deliver, or otherwise transact in certain investment securities or obtain exposure to foreign securities and assets. This may negatively impact the value and/or liquidity of a fund's investments and could impair a fund's ability to meet its investment objective or invest in accordance with its investment strategy. Sanctions could also result in the devaluation of a country's currency, a downgrade in the credit ratings of a country or issuers in a country, or a decline in the value and/or liquidity of securities of issuers in that country.

Although an advisor will endeavor to achieve the most favorable execution costs for a fund's portfolio transactions in foreign securities under the circumstances, commissions and other transaction costs are generally higher than those on U.S. securities. In addition, it is expected that the custodian arrangement expenses for a fund that invests primarily in foreign securities will be somewhat greater than the expenses for a fund that invests primarily in domestic securities. Additionally, bankruptcy laws vary by jurisdiction and cash deposits may be subject to a custodian's creditors. Certain foreign governments levy withholding or other taxes against dividend and interest income from, capital gains on the sale of, or transactions in foreign securities. Although in some countries a portion of these taxes is recoverable by the fund, the nonrecovered portion of foreign withholding taxes will reduce the income received from such securities.

The value of the foreign securities held by a fund that are not U.S. dollar-denominated may be significantly affected by changes in currency exchange rates. The U.S. dollar value of a foreign security generally decreases when the value of the U.S. dollar rises against the foreign currency in which the security is denominated, and it tends to increase when the value of the U.S. dollar falls against such currency (as discussed under the heading "*Foreign Securities—Foreign Currency Transactions,*" a fund may attempt to hedge its currency risks). In addition, the value of fund assets may be affected by losses and other expenses incurred from converting between various currencies in order to purchase and sell foreign securities, as well as by currency restrictions, exchange control regulations, currency devaluations, and political and economic developments.

**Foreign Securities—Emerging Market Risk.** Investing in emerging market countries involves certain risks not typically associated with investing in the United States, and it imposes risks greater than, or in addition to, risks of investing in more developed foreign countries. These risks may significantly affect the value of emerging market investments and include: (i) nationalization or expropriation of assets or confiscatory taxation; (ii) currency devaluations and other currency exchange rate fluctuations; (iii) greater social, economic, and political uncertainty and instability (including amplified risk of war and terrorism); (iv) more substantial government involvement in and control over the economy; (v)

less government supervision and regulation of the securities markets and participants in those markets and possible arbitrary and unpredictable enforcement of securities regulations and other laws, which may increase the risk of market manipulation; (vi) controls on foreign investment and limitations on repatriation of invested capital and on a fund's ability to exchange local currencies for U.S. dollars; (vii) unavailability of currency-hedging techniques in certain emerging market countries; (viii) generally smaller, less seasoned, or newly-organized companies; (ix) differences in, or lack of, corporate governance, accounting, auditing, recordkeeping, and financial reporting standards, which may result in unavailability of material information about issuers and impede evaluation of such issuers; (x) difficulty in obtaining and/or enforcing a judgment in a court outside the United States; and (xi) greater price volatility, substantially less liquidity, and significantly smaller market capitalization of securities markets. Also, any change in the leadership or politics of emerging market countries, or the countries that exercise a significant influence over those countries, may halt the expansion of or reverse the liberalization of foreign investment policies now occurring and adversely affect existing investment opportunities. Furthermore, high rates of inflation and rapid fluctuations in inflation rates have had, and may continue to have, negative effects on the economies and securities markets of certain emerging market countries. Custodial expenses and other investment-related costs are often more expensive in emerging market countries, which can reduce a fund's income from investments in securities or debt instruments of emerging market country issuers. Additionally, information regarding companies located in emerging markets may be less available and less reliable, which can impede the ability to evaluate such companies. There may also be limited regulatory oversight of certain foreign subcustodians that hold foreign securities subject to the supervision of a fund's primary U.S.-based custodian. A fund may be limited in its ability to recover assets if a foreign subcustodian becomes bankrupt or otherwise unable or unwilling to return assets to the fund, which may expose the fund to risk, especially in circumstances where the fund's primary custodian may not be contractually obligated to make the fund whole for the particular loss.

Emerging market investments also carry the risk that strained international relations may give rise to retaliatory actions, including actions through financial markets such as purchase and ownership restrictions, sanctions, tariffs, cyberattacks, and unpredictable enforcement of securities regulations and other laws. Such actual and/or threatened retaliatory actions may impact emerging market economies and issuers in which a fund invests. For example, in China, ownership of companies in certain sectors by foreign individuals and entities is prohibited. In order to facilitate investment in these companies by foreign individuals, many Chinese companies have created variable interest entities ("VIEs") that provide exposure to the Chinese company through contractual arrangements instead of equity ownership. VIE structures are subject to risks associated with breach of the contractual arrangements, including difficulty in enforcing any judgments outside of the United States, and do not offer the same level of investor protection as direct ownership. Additionally, while VIEs are a longstanding industry practice, they have not been approved by Chinese regulators. Chinese regulators could prohibit Chinese companies from accessing foreign investment through VIEs or sever their ability to transmit economic and governance rights to foreign individuals and entities. Such actions would significantly reduce, and possibly permanently eliminate, the market value of VIEs held by a fund.

**Foreign Securities—Foreign Currency Transactions.** The value in U.S. dollars of a fund's non-dollar-denominated foreign securities may be affected favorably or unfavorably by changes in foreign currency exchange rates and exchange control regulations, and the fund may incur costs in connection with conversions between various currencies. To seek to minimize the impact of such factors on net asset values, a fund may engage in foreign currency transactions in connection with its investments in foreign securities. A fund will enter into foreign currency transactions only to attempt to "hedge" the currency risk associated with investing in foreign securities. Although such transactions tend to minimize the risk of loss that would result from a decline in the value of the hedged currency, they also may limit any potential gain that might result should the value of such currency increase.

Currency exchange transactions may be conducted either on a spot (i.e., cash) basis at the rate prevailing in the currency exchange market or through forward contracts to purchase or sell foreign currencies. A forward currency contract involves an obligation to purchase or sell a specific currency at a future date, which may be any fixed number of days from the date of the contract agreed upon by the parties, at a price set at the time of the contract. These contracts are entered into with large commercial banks or other currency traders who are participants in the interbank market. Currency exchange transactions also may be effected through the use of swap agreements or other derivatives.

Currency exchange transactions may be considered borrowings. A currency exchange transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

By entering into a forward contract for the purchase or sale of foreign currency involved in underlying security transactions, a fund may be able to protect itself against part or all of the possible loss between trade and settlement

dates for that purchase or sale resulting from an adverse change in the relationship between the U.S. dollar and such foreign currency. This practice is sometimes referred to as “transaction hedging.” In addition, when the advisor reasonably believes that a particular foreign currency may suffer a substantial decline against the U.S. dollar, a fund may enter into a forward contract to sell an amount of foreign currency approximating the value of some or all of its portfolio securities denominated in such foreign currency. This practice is sometimes referred to as “portfolio hedging.” Similarly, when the advisor reasonably believes that the U.S. dollar may suffer a substantial decline against a foreign currency, a fund may enter into a forward contract to buy that foreign currency for a fixed dollar amount.

A fund may also attempt to hedge its foreign currency exchange rate risk by engaging in currency futures, options, and “cross-hedge” transactions. In cross-hedge transactions, a fund holding securities denominated in one foreign currency will enter into a forward currency contract to buy or sell a different foreign currency (one that the advisor reasonably believes generally tracks the currency being hedged with regard to price movements). The advisor may select the tracking (or substitute) currency rather than the currency in which the security is denominated for various reasons, including in order to take advantage of pricing or other opportunities presented by the tracking currency or to take advantage of a more liquid or more efficient market for the tracking currency. Such cross-hedges are expected to help protect a fund against an increase or decrease in the value of the U.S. dollar against certain foreign currencies.

A fund may hold a portion of its assets in bank deposits denominated in foreign currencies so as to facilitate investment in foreign securities as well as protect against currency fluctuations and the need to convert such assets into U.S. dollars (thereby also reducing transaction costs). To the extent these assets are converted back into U.S. dollars, the value of the assets so maintained will be affected favorably or unfavorably by changes in foreign currency exchange rates and exchange control regulations.

Forecasting the movement of the currency market is extremely difficult. Whether any hedging strategy will be successful is highly uncertain. Moreover, it is impossible to forecast with precision the market value of portfolio securities at the expiration of a forward currency contract. Accordingly, a fund may be required to buy or sell additional currency on the spot market (and bear the expense of such transaction) if its advisor’s predictions regarding the movement of foreign currency or securities markets prove inaccurate. In addition, the use of cross-hedging transactions may involve special risks and may leave a fund in a less advantageous position than if such a hedge had not been established. Because forward currency contracts are privately negotiated transactions, there can be no assurance that a fund will have flexibility to roll over a forward currency contract upon its expiration if it desires to do so. Additionally, there can be no assurance that the other party to the contract will perform its services thereunder.

**Foreign Securities—Foreign Investment Companies.** Some of the countries in which a fund may invest may not permit, or may place economic restrictions on, direct investment by outside investors. Fund investments in such countries may be permitted only through foreign government-approved or authorized investment vehicles, which may include other investment companies. Such investments may be made through registered or unregistered closed-end investment companies that invest in foreign securities. Investing through such vehicles may involve layered fees or expenses and may also be subject to the limitations on, and the risks of, a fund’s investments in other investment companies, which are described under the heading “*Other Investment Companies*.”

**Foreign Securities—Russian Market Risk.** Russia’s large-scale invasion of Ukraine has resulted in sanctions against Russian governmental institutions, Russian entities, and Russian individuals that may result in the devaluation of Russian currency; a downgrade in the country’s credit rating; a freeze of Russian foreign assets; a decline in the value and liquidity of Russian securities, properties, or interests; and other adverse consequences to the Russian economy and Russian assets. In addition, a fund’s ability to price, buy, sell, receive, or deliver Russian investments has been and may continue to be impaired. These sanctions, and the resulting disruption of the Russian economy, may cause volatility in other regional and global markets and may negatively impact the performance of various sectors and industries, as well as companies in other countries, which could have a negative effect on the performance of a fund, even if the fund does not have direct exposure to securities of Russian issuers.

**Futures Contracts and Options on Futures Contracts.** Futures contracts and options on futures contracts are derivatives. A futures contract is a standardized agreement between two parties to buy or sell at a specific time in the future a specific quantity of a commodity at a specific price. The commodity may consist of an asset, a reference rate, or an index. A security futures contract relates to the sale of a specific quantity of shares of a single equity security or a narrow-based securities index. The value of a futures contract tends to increase and decrease in tandem with the value of the underlying commodity. The buyer of a futures contract enters into an agreement to purchase the underlying commodity on the settlement date and is said to be “long” the contract. The seller of a futures contract enters into an agreement to sell the underlying commodity on the settlement date and is said to be “short” the contract. The price at which a futures contract is entered into is established either in the electronic marketplace or by open outcry on the floor

of an exchange between exchange members acting as traders or brokers. Open futures contracts can be liquidated or closed out by physical delivery of the underlying commodity or payment of the cash settlement amount on the settlement date, depending on the terms of the particular contract. Some financial futures contracts (such as security futures) provide for physical settlement at maturity. Other financial futures contracts (such as those relating to interest rates, foreign currencies, and broad-based securities indexes) generally provide for cash settlement at maturity. In the case of cash-settled futures contracts, the cash settlement amount is equal to the difference between the final settlement or market price for the relevant commodity on the last trading day of the contract and the price for the relevant commodity agreed upon at the outset of the contract. Most futures contracts, however, are not held until maturity but instead are “offset” before the settlement date through the establishment of an opposite and equal futures position.

The purchaser or seller of a futures contract is not required to deliver or pay for the underlying commodity unless the contract is held until the settlement date. However, both the purchaser and seller are required to deposit “initial margin” with a futures commission merchant (FCM) when the futures contract is entered into. Initial margin deposits are typically calculated as an amount equal to the volatility in market value of a contract over a fixed period. If the value of the fund’s position declines, the fund will be required to make additional “variation margin” payments to the FCM to settle the change in value. If the value of the fund’s position increases, the FCM will be required to make additional “variation margin” payments to the fund to settle the change in value. This process is known as “marking-to-market” and is calculated on a daily basis. A futures transaction will not be considered to constitute the issuance, by a fund, of a “senior security,” as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

An option on a futures contract (or futures option) conveys the right, but not the obligation, to purchase (in the case of a call option) or sell (in the case of a put option) a specific futures contract at a specific price (called the “exercise” or “strike” price) any time before the option expires. The seller of an option is called an option writer. The purchase price of an option is called the premium. The potential loss to an option buyer is limited to the amount of the premium plus transaction costs. This will be the case, for example, if the option is held and not exercised prior to its expiration date. Generally, an option writer sells options with the goal of obtaining the premium paid by the option buyer. If an option sold by an option writer expires without being exercised, the writer retains the full amount of the premium. The option writer, however, has unlimited economic risk because its potential loss, except to the extent offset by the premium received when the option was written, is equal to the amount the option is “in-the-money” at the expiration date. A call option is in-the-money if the value of the underlying futures contract exceeds the exercise price of the option. A put option is in-the-money if the exercise price of the option exceeds the value of the underlying futures contract. Generally, any profit realized by an option buyer represents a loss for the option writer.

A fund that takes the position of a writer of a futures option is required to deposit and maintain initial and variation margin with respect to the option, as previously described in the case of futures contracts. A futures option transaction will not be considered to constitute the issuance, by a fund, of a “senior security,” as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

***Futures Contracts and Options on Futures Contracts—Risks.*** The risk of loss in trading futures contracts and in writing futures options can be substantial because of the low margin deposits required, the extremely high degree of leverage involved in futures and options pricing, and the potential high volatility of the futures markets. As a result, a relatively small price movement in a futures position may result in immediate and substantial loss (or gain) for the investor. For example, if at the time of purchase, 10% of the value of the futures contract is deposited as margin, a subsequent 10% decrease in the value of the futures contract would result in a total loss of the margin deposit, before any deduction for the transaction costs, if the account were then closed out. A 15% decrease would result in a loss equal to 150% of the original margin deposit if the contract were closed out. Thus, a purchase or sale of a futures contract, and the writing of a futures option, may result in losses in excess of the amount invested in the position. In the event of adverse price movements, a fund would continue to be required to make daily cash payments to maintain its required margin. In such situations, if the fund has insufficient cash, it may have to sell portfolio securities to meet daily margin requirements at a time when it may be disadvantageous to do so. In addition, on the settlement date, a fund may be required to make delivery of the instruments underlying the futures positions it holds.

A fund could suffer losses if it is unable to close out a futures contract or a futures option because of an illiquid secondary market. Futures contracts and futures options may be closed out only on an exchange that provides a secondary market for such products. However, there can be no assurance that a liquid secondary market will exist for

any particular futures product at any specific time. Thus, it may not be possible to close a futures or option position. Moreover, most futures exchanges limit the amount of fluctuation permitted in futures contract prices during a single trading day. The daily limit establishes the maximum amount that the price of a futures contract may vary either up or down from the previous day's settlement price at the end of a trading session. Once the daily limit has been reached in a particular type of contract, no trades may be made on that day at a price beyond that limit. The daily limit governs only price movement during a particular trading day, and therefore does not limit potential losses because the limit may prevent the liquidation of unfavorable positions. Futures contract prices have occasionally moved to the daily limit for several consecutive trading days with little or no trading, thereby preventing prompt liquidation of future positions and subjecting some futures traders to substantial losses. The inability to close futures and options positions also could have an adverse impact on the ability to hedge a portfolio investment or to establish a substitute for a portfolio investment. U.S. Treasury futures are generally not subject to such daily limits.

A fund bears the risk that its advisor will incorrectly predict future market trends. If the advisor attempts to use a futures contract or a futures option as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the futures position will have or will develop imperfect or no correlation with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies involving futures products can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments.

A fund could lose margin payments it has deposited with its FCM if, for example, the FCM breaches its agreement with the fund or becomes insolvent or goes into bankruptcy. In that event, the fund may be entitled to return of margin owed to it only in proportion to the amount received by the FCM's other customers, potentially resulting in losses to the fund.

**Interfund Borrowing and Lending.** The SEC has granted an exemption permitting registered open-end Vanguard funds to participate in Vanguard's interfund lending program. This program allows the Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes. The program is subject to a number of conditions, including, among other things, the requirements that (1) no fund may borrow or lend money through the program unless it receives a more favorable interest rate than is typically available from a bank for a comparable transaction, (2) no fund may lend money if the loan would cause its aggregate outstanding loans through the program to exceed 15% of its net assets at the time of the loan, and (3) a fund's interfund loans to any one fund shall not exceed 5% of the lending fund's net assets. In addition, a Vanguard fund may participate in the program only if and to the extent that such participation is consistent with the fund's investment objective and investment policies. The boards of trustees of the Vanguard funds are responsible for overseeing the interfund lending program. Any delay in repayment to a lending fund could result in a lost investment opportunity or additional borrowing costs.

**Investing for Control.** Each Vanguard fund invests in securities and other instruments for the sole purpose of achieving a specific investment objective. As such, a Vanguard fund does not seek to acquire, individually or collectively with any other Vanguard fund, enough of a company's outstanding voting stock to have control over management decisions. A Vanguard fund does not invest for the purpose of controlling a company's management.

**Market Disruption.** Significant market disruptions, such as those caused by pandemics, natural or environmental disasters, war, acts of terrorism, or other events, can adversely affect local and global markets and normal market operations. Market disruptions may exacerbate political, social, and economic risks discussed above and in a fund's prospectus. Additionally, market disruptions may result in increased market volatility; regulatory trading halts; closure of domestic or foreign exchanges, markets, or governments; or market participants operating pursuant to business continuity plans for indeterminate periods of time. Such events can be highly disruptive to economies and markets and significantly impact individual companies, sectors, industries, markets, currencies, interest and inflation rates, credit ratings, investor sentiment, and other factors affecting the value of a fund's investments and operation of a fund. These events could also result in the closure of businesses that are integral to a fund's operations or otherwise disrupt the ability of employees of fund service providers to perform essential tasks on behalf of a fund.

**Options.** An option is a derivative. An option on a security (or index) is a contract that gives the holder of the option, in return for the payment of a "premium," the right, but not the obligation, to buy from (in the case of a call option) or sell to (in the case of a put option) the writer of the option the security underlying the option (or the cash value of the index) at a specified exercise price prior to the expiration date of the option. The writer of an option on a security has the obligation upon exercise of the option to deliver the underlying security upon payment of the exercise price (in the case of a call option) or to pay the exercise price upon delivery of the underlying security (in the case of a put option). The writer of an option on an index has the obligation upon exercise of the option to pay an amount equal to the cash value of the index minus the exercise price, multiplied by the specified multiplier for the index option. The multiplier for an index option determines the size of the investment position the option represents. Unlike exchange-traded options,

which are standardized with respect to the underlying instrument, expiration date, contract size, and strike price, the terms of over-the-counter (OTC) options (options not traded on exchanges) generally are established through negotiation with the other party to the option contract. Although this type of arrangement allows the purchaser or writer greater flexibility to tailor an option to its needs, OTC options generally involve credit risk to the counterparty, whereas for exchange-traded, centrally cleared options, credit risk is mutualized through the involvement of the applicable clearing house.

The buyer (or holder) of an option is said to be “long” the option, while the seller (or writer) of an option is said to be “short” the option. A call option grants to the holder the right to buy (and obligates the writer to sell) the underlying security at the strike price, which is the predetermined price at which the option may be exercised. A put option grants to the holder the right to sell (and obligates the writer to buy) the underlying security at the strike price. The purchase price of an option is called the “premium.” The potential loss to an option buyer is limited to the amount of the premium plus transaction costs. This will be the case if the option is held and not exercised prior to its expiration date. Generally, an option writer sells options with the goal of obtaining the premium paid by the option buyer, but that person could also seek to profit from an anticipated rise or decline in option prices. If an option sold by an option writer expires without being exercised, the writer retains the full amount of the premium. The option writer, however, has unlimited economic risk because its potential loss, except to the extent offset by the premium received when the option was written, is equal to the amount the option is “in-the-money” at the expiration date. A call option is in-the-money if the value of the underlying position exceeds the exercise price of the option. A put option is in-the-money if the exercise price of the option exceeds the value of the underlying position. Generally, any profit realized by an option buyer represents a loss for the option writer. The writing of an option will not be considered to constitute the issuance, by a fund, of a “senior security,” as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

If a trading market, in particular options, were to become unavailable, investors in those options (such as the funds) would be unable to close out their positions until trading resumes, and they may be faced with substantial losses if the value of the underlying instrument moves adversely during that time. Even if the market were to remain available, there may be times when options prices will not maintain their customary or anticipated relationships to the prices of the underlying instruments and related instruments. Lack of investor interest, changes in volatility, or other factors or conditions might adversely affect the liquidity, efficiency, continuity, or even the orderliness of the market for particular options.

A fund bears the risk that its advisor will not accurately predict future market trends. If the advisor attempts to use an option as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the option will have or will develop imperfect or no correlation with the portfolio investment, which could cause substantial losses for the fund. Although hedging strategies involving options can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many options, in particular OTC options, are complex and often valued based on subjective factors. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

**OTC Swap Agreements.** An over-the-counter (OTC) swap agreement, which is a type of derivative, is an agreement between two parties (counterparties) to exchange payments at specified dates (periodic payment dates) on the basis of a specified amount (notional amount) with the payments calculated with reference to a specified asset, reference rate, or index.

Examples of OTC swap agreements include, but are not limited to, interest rate swaps, credit default swaps, equity swaps, commodity swaps, foreign currency swaps, index swaps, excess return swaps, and total return swaps. Most OTC swap agreements provide that when the periodic payment dates for both parties are the same, payments are netted and only the net amount is paid to the counterparty entitled to receive the net payment. Consequently, a fund’s current obligations (or rights) under an OTC swap agreement will generally be equal only to the net amount to be paid or received under the agreement, based on the relative values of the positions held by each counterparty. OTC swap agreements allow for a wide variety of transactions. For example, fixed rate payments may be exchanged for floating rate payments; U.S. dollar-denominated payments may be exchanged for payments denominated in a different currency; and payments tied to the price of one asset, reference rate, or index may be exchanged for payments tied to the price of another asset, reference rate, or index.



An OTC option on an OTC swap agreement, also called a “swaption,” is an option that gives the buyer the right, but not the obligation, to enter into a swap on a future date in exchange for paying a market-based “premium.” A receiver swaption gives the owner the right to receive the total return of a specified asset, reference rate, or index. A payer swaption gives the owner the right to pay the total return of a specified asset, reference rate, or index. Swaptions also include options that allow an existing swap to be terminated or extended by one of the counterparties.

The use of OTC swap agreements by a fund entails certain risks, which may be different from, or possibly greater than, the risks associated with investing directly in the securities and other investments that are the referenced asset for the swap agreement. OTC swaps are highly specialized instruments that require investment techniques, risk analyses, and tax planning different from those associated with stocks, bonds, and other traditional investments. The use of an OTC swap requires an understanding not only of the referenced asset, reference rate, or index but also of the swap itself, without the benefit of observing the performance of the swap under all possible market conditions.

OTC swap agreements may be subject to liquidity risk, which exists when a particular swap is difficult to purchase or sell. If an OTC swap transaction is particularly large or if the relevant market is illiquid (as is the case with many OTC swaps), it may not be possible to initiate a transaction or liquidate a position at an advantageous time or price, which may result in significant losses. In addition, OTC swap transactions may be subject to a fund’s limitation on investments in illiquid securities.

OTC swap agreements may be subject to pricing risk, which exists when a particular swap becomes extraordinarily expensive or inexpensive relative to historical prices or the prices of corresponding cash market instruments. Under certain market conditions, it may not be economically feasible to initiate a transaction or liquidate a position in time to avoid a loss or take advantage of an opportunity or to realize the intrinsic value of the OTC swap agreement.

Because certain OTC swap agreements have a leverage component, adverse changes in the value or level of the underlying asset, reference rate, or index can result in a loss substantially greater than the amount invested in the swap itself. Certain OTC swaps have the potential for unlimited loss, regardless of the size of the initial investment. A leveraged OTC swap transaction will not be considered to constitute the issuance, by a fund, of a “senior security,” as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4.

Like most other investments, OTC swap agreements are subject to the risk that the market value of the instrument will change in a way detrimental to a fund’s interest. A fund bears the risk that its advisor will not accurately forecast future market trends or the values of assets, reference rates, indexes, or other economic factors in establishing OTC swap positions for the fund. If the advisor attempts to use an OTC swap as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the OTC swap will have or will develop imperfect or no correlation with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies involving OTC swap instruments can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many OTC swaps are complex and often valued subjectively. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

The use of an OTC swap agreement also involves the risk that a loss may be sustained as a result of the insolvency or bankruptcy of the counterparty or the failure of the counterparty to make required payments or otherwise comply with the terms of the agreement. Additionally, the use of credit default swaps can result in losses if a fund’s advisor does not correctly evaluate the creditworthiness of the issuer on which the credit swap is based.

**Other Investment Companies.** A fund may invest in other investment companies, including ETFs, non-exchange traded U.S. registered open-end investment companies (mutual funds), and closed-end investment companies, to the extent permitted by applicable law or SEC exemption. Under Section 12(d)(1) of the 1940 Act, a fund may invest up to 10% of its assets in shares of investment companies generally and up to 5% of its assets in any one investment company, as long as no investment represents more than 3% of the voting stock of an acquired investment company. In addition, no funds for which Vanguard acts as an advisor may, in the aggregate, own more than 10% of the voting stock of a closed-end investment company. SEC Rule 12d1-4 under the 1940 Act permits registered investment companies to invest in other registered investment companies beyond the limits in Section 12(d)(1), subject to certain conditions, including that funds with different investment advisors must enter into a fund of funds investment agreement.

Rule 12d1-4 is also designed to limit the use of complex fund structures. Under Rule 12d1-4, an acquired fund is prohibited from purchasing or otherwise acquiring the securities of another investment company or private fund if, immediately after the purchase, the securities of investment companies and private funds owned by the acquired fund have an aggregate value in excess of 10% of the value of the acquired fund’s total assets, subject to certain limited

exceptions. Accordingly, to the extent a fund's shares are sold to other investment companies in reliance on Rule 12d1-4, the acquired fund will be limited in the amount it could invest in other investment companies and private funds. If a fund invests in other investment companies, shareholders will bear not only their proportionate share of the fund's expenses (including operating expenses and the fees of the advisor), but they also may indirectly bear similar expenses of the underlying investment companies. Certain investment companies, such as business development companies (BDCs), are more akin to operating companies and, as such, their expenses are not direct expenses paid by fund shareholders and are not used to calculate the fund's net asset value. SEC rules nevertheless require that any expenses incurred by a BDC be included in a fund's expense ratio as "Acquired Fund Fees and Expenses." The expense ratio of a fund that holds a BDC will thus overstate what the fund actually spends on portfolio management, administrative services, and other shareholder services by an amount equal to these Acquired Fund Fees and Expenses. The Acquired Fund Fees and Expenses are not included in a fund's financial statements, which provide a clearer picture of a fund's actual operating expenses. Shareholders would also be exposed to the risks associated not only with the investments of the fund but also with the portfolio investments of the underlying investment companies. Certain types of investment companies, such as closed-end investment companies, issue a fixed number of shares that typically trade on a stock exchange or over-the-counter at a premium or discount to their net asset value. Others are continuously offered at net asset value but also may be traded on the secondary market.

A fund may be limited to purchasing a particular share class of other investment companies (underlying funds). In certain cases, an investor may be able to purchase lower-cost shares of such underlying funds separately, and therefore be able to construct, and maintain over time, a similar portfolio of investments while incurring lower overall expenses.

***Ownership Limitations and Regulatory Relief.*** The ability of Vanguard and external advisors to purchase or dispose of certain fund investments, or to exercise rights on behalf of a fund, is or may be restricted or impaired because of limitations imposed by law, regulation, or by certain regulators or issuers. As a result, Vanguard and external advisors, on behalf of certain funds currently and other funds potentially in the future, are required to limit purchases, sell existing investments, or otherwise limit the exercise of shareholder rights by the fund, including voting rights. These ownership restrictions and limitations can impact a fund's performance. For index funds, this impact generally takes the form of tracking error, which can arise when a fund is not able to acquire its desired amount of a security. For actively managed funds, this impact can result, for example, in missed investment opportunities otherwise desired by a fund's investment advisor. If a fund is required to limit its investment in a particular issuer, then the fund may seek to obtain regulatory or corporate consents or ownership waivers. Other options a fund may pursue include seeking to obtain economic exposure to that issuer through alternative means, such as through a derivative or through investment in a totally held subsidiary, both of which may be more costly than owning securities of the issuer directly. In the event a derivative, such as a swap, is used as an alternative means of exposure, Vanguard and external advisors on behalf of a fund are not able to guarantee the availability of derivatives necessary to allow economic exposure to the security, sector, or industry. This limited availability may have additional impacts to fund performance. Additionally, use of derivatives as an alternative means of exposure subjects a fund to derivatives-related risks. Ownership restrictions and limitations could result in unanticipated tax consequences to the fund that may affect the amount, timing, and character of distributions to shareholders.

***Preferred Stock.*** Preferred stock represents an equity or ownership interest in an issuer. Preferred stock normally pays dividends at a specified rate and has precedence over common stock in the event the issuer is liquidated or declares bankruptcy. However, in the event an issuer is liquidated or declares bankruptcy, the claims of owners of bonds take precedence over the claims of those who own preferred and common stock. Preferred stock, unlike common stock, often has a stated dividend rate payable from the corporation's earnings. Preferred stock dividends may be cumulative or noncumulative, participating, or auction rate. "Cumulative" dividend provisions require all or a portion of prior unpaid dividends to be paid before dividends can be paid to the issuer's common stock. "Participating" preferred stock may be entitled to a dividend exceeding the stated dividend in certain cases. If interest rates rise, the fixed dividend on preferred stocks may be less attractive, causing the price of such stocks to decline. Preferred stock may have mandatory sinking fund provisions, as well as provisions allowing the stock to be called or redeemed, which can limit the benefit of a decline in interest rates. Preferred stock is subject to many of the risks to which common stock and debt securities are subject. In addition, preferred stock may be subject to more abrupt or erratic price movements than common stock or debt securities because preferred stock may trade with less frequency and in more limited volume.

***Reliance on Service Providers, Data Providers, and Other Technology.*** Vanguard funds rely upon the performance of service providers to execute several key functions, which may include functions integral to a fund's operations. Failure by any service provider to carry out its obligations to a fund could disrupt the business of the fund and could have an adverse effect on the fund's performance. A fund's service providers' reliance on certain technology or

information vendors (e.g., trading systems, investment analysis tools, benchmark analytics, and tax and accounting tools) could also adversely affect a fund and its shareholders. For example, a fund's investment advisor may use models and/or data with respect to potential investments for the fund. When models or data prove to be incorrect or incomplete, any decisions made in reliance upon such models or data expose a fund to potential risks.

**Repurchase Agreements.** A repurchase agreement is an agreement under which a fund acquires a debt security (generally a security issued by the U.S. government or an agency thereof, a banker's acceptance, or a certificate of deposit) from a bank, a broker, a dealer, or another counterparty that meets minimum credit requirements and simultaneously agrees to resell such security to the seller at an agreed-upon price and date (normally, the next business day). Because the security purchased constitutes collateral for the repurchase obligation, a repurchase agreement may be considered a loan that is collateralized by the security purchased. The resale price reflects an agreed-upon interest rate effective for the period the instrument is held by a fund and is unrelated to the interest rate on the underlying instrument. In these transactions, the securities acquired by a fund (including accrued interest earned thereon) must have a total value in excess of the value of the repurchase agreement and be held by a custodian bank until repurchased. In addition, the investment advisor will monitor a fund's repurchase agreement transactions generally and will evaluate the creditworthiness of any bank, broker, dealer, or other counterparty that meets minimum credit requirements to a repurchase agreement relating to a fund. The aggregate amount of any such agreements is not limited, except to the extent required by law.

The use of repurchase agreements involves certain risks. One risk is the seller's ability to pay the agreed-upon repurchase price on the repurchase date. If the seller defaults, the fund may incur costs in disposing of the collateral, which would reduce the amount realized thereon. If the seller seeks relief under bankruptcy laws, the disposition of the collateral may be delayed or limited. For example, if the other party to the agreement becomes insolvent and subject to liquidation or reorganization under bankruptcy or other laws, a court may determine that the underlying security is collateral for a loan by the fund not within its control, and therefore the realization by the fund on such collateral may be automatically stayed. Finally, it is possible that the fund may not be able to substantiate its interest in the underlying security and may be deemed an unsecured creditor of the other party to the agreement.

**Restricted and Illiquid Securities/Investments (including Private Placements).** Illiquid securities/investments are investments that a fund reasonably expects cannot be sold or disposed of in current market conditions in seven calendar days or less without the sale or disposition significantly changing the market value of the investment. The SEC generally limits aggregate holdings of illiquid securities/investments by a mutual fund to 15% of its net assets (5% for money market funds). A fund may experience difficulty valuing and selling illiquid securities/investments and, in some cases, may be unable to value or sell certain illiquid securities for an indefinite period of time. Illiquid securities may include a wide variety of investments, such as (1) repurchase agreements maturing in more than seven days (unless the agreements have demand/redemption features), (2) OTC options contracts and certain other derivatives (including certain swap agreements), (3) fixed time deposits that are not subject to prepayment or do not provide for withdrawal penalties upon prepayment (other than overnight deposits), (4) certain loan interests and other direct debt instruments, (5) certain municipal lease obligations, (6) private equity investments, (7) commercial paper issued pursuant to Section 4(a)(2) of the 1933 Act, and (8) securities whose disposition is restricted under the federal securities laws. Illiquid securities/investments may include restricted, privately placed securities (such as private investments in public equity (PIPEs) or special purpose acquisition companies (SPACs)) that, under the federal securities laws, generally may be resold only to qualified institutional buyers. If a market develops for a restricted security held by a fund, it may be treated as a liquid security in accordance with guidelines approved by the board of trustees.

**Reverse Repurchase Agreements.** In a reverse repurchase agreement, a fund sells a security to another party, such as a bank or broker-dealer, in return for cash and agrees to repurchase that security at an agreed-upon price and time. Under a reverse repurchase agreement, the fund continues to receive any principal and interest payments on the underlying security during the term of the agreement. Reverse repurchase agreements involve the risk that the market value of securities retained by the fund may decline below the repurchase price of the securities sold by the fund that it is obligated to repurchase. In addition to the risk of such a loss, fees charged to the fund may exceed the return the fund earns from investing the proceeds received from the reverse repurchase agreement transaction. A reverse repurchase agreement may be considered a borrowing transaction for purposes of the 1940 Act. A reverse repurchase agreement transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund complies with Rule 18f-4. A fund will enter into reverse repurchase agreements only with parties whose creditworthiness has been reviewed and found satisfactory by

the advisor. If the buyer in a reverse repurchase agreement becomes insolvent or files for bankruptcy, a fund's use of proceeds from the sale may be restricted while the other party or its trustee or receiver determines if it will honor the fund's right to repurchase the securities. If the fund is unable to recover the securities it sold in a reverse repurchase agreement, it would realize a loss equal to the difference between the value of the securities and the payment it received for them.

**Securities Lending.** A fund may lend its securities to financial institutions (typically brokers, dealers, and banks) to generate income for the fund. There are certain risks associated with lending securities, including counterparty, credit, market, regulatory, and operational risks. Vanguard considers the creditworthiness of the borrower, among other factors, in making decisions with respect to the lending of securities, subject to oversight by the board of trustees. If the borrower defaults on its obligation to return the securities lent because of insolvency or other reasons, a fund could experience delays and costs in recovering the securities lent or in gaining access to the collateral. These delays and costs could be greater for certain types of foreign securities, as well as certain types of borrowers that are subject to global regulatory regimes. If a fund is not able to recover the securities lent, the fund may sell the collateral and purchase a replacement security in the market. Collateral investments are subject to market appreciation or depreciation. The value of the collateral could decrease below the value of the replacement investment by the time the replacement investment is purchased. Currently, a fund invests cash collateral into Vanguard Market Liquidity Fund, an affiliated money market fund that invests in high-quality, short-term money market instruments.

The terms and the structure of the loan arrangements, as well as the aggregate amount of securities loans, must be consistent with the 1940 Act and the rules or interpretations of the SEC thereunder. These provisions limit the amount of securities a fund may lend to 33⅓% of the fund's total assets and require that (1) the borrower pledge and maintain with the fund collateral consisting of cash, an irrevocable letter of credit, or securities issued or guaranteed by the U.S. government having at all times not less than 100% of the value of the securities lent; (2) the borrower add to such collateral whenever the price of the securities lent rises (i.e., the borrower "marks to market" on a daily basis); (3) the loan be made subject to termination by the fund at any time; and (4) the fund receives reasonable interest on the loan (which may include the fund investing any cash collateral in interest-bearing short-term investments), any distribution on the lent securities, and any increase in their market value. Loan arrangements made by a fund will comply with any other applicable regulatory requirements. At the present time, the SEC does not object if an investment company pays reasonable negotiated fees in connection with lent securities, so long as such fees are set forth in a written contract and approved by the investment company's trustees. In addition, voting rights pass with the lent securities, but if a fund has knowledge that a material event will occur affecting securities on loan, and in respect to which the holder of the securities will be entitled to vote or consent, the lender must be entitled to call the loaned securities in time to vote or consent. A fund bears the risk that there may be a delay in the return of the securities, which may impair the fund's ability to vote on such a matter. See *Tax Status of the Fund* for information about certain tax consequences related to a fund's securities lending activities.

Pursuant to Vanguard's securities lending policy, Vanguard's fixed income and money market funds are not permitted to, and do not, lend their investment securities.

**Tax Matters—Federal Tax Discussion.** Discussion herein of U.S. federal income tax matters summarizes some of the important, generally applicable U.S. federal tax considerations relevant to investment in a fund based on the IRC, U.S. Treasury regulations, and other applicable authorities. These authorities are subject to change by legislative, administrative, or judicial action, possibly with retroactive effect. The Fund has not requested and will not request an advance ruling from the Internal Revenue Service (IRS) as to the U.S. federal income tax matters discussed in this Statement of Additional Information. In some cases, a fund's tax position may be uncertain under current tax law and an adverse determination or future guidance by the IRS with respect to such a position could adversely affect the fund and its shareholders, including the fund's ability to continue to qualify as a regulated investment company or to continue to pursue its current investment strategy. A shareholder should consult his or her tax professional for information regarding the particular situation and the possible application of U.S. federal, state, local, foreign, and other taxes.

**Tax Matters—Federal Tax Treatment of Derivatives, Hedging, and Related Transactions.** A fund's transactions in derivative instruments (including, but not limited to, options, futures, forward contracts, and swap agreements), as well as any of the fund's hedging, short sale, securities loan, or similar transactions, may be subject to one or more special tax rules that accelerate income to the fund, defer losses to the fund, cause adjustments in the holding periods of the fund's securities, convert long-term capital gains into short-term capital gains, or convert short-term capital losses into long-term capital losses. These rules could therefore affect the amount, timing, and character of distributions to shareholders.

Because these and other tax rules applicable to these types of transactions are in some cases uncertain under current law, an adverse determination or future guidance by the IRS with respect to these rules (which determination or guidance could be retroactive) may affect whether a fund has made sufficient distributions, and otherwise satisfied the relevant requirements, to maintain its qualification as a regulated investment company and avoid a fund-level tax.

**Tax Matters—Federal Tax Treatment of Futures Contracts.** For federal income tax purposes, a fund generally must recognize, as of the end of each taxable year, any net unrealized gains and losses on certain futures contracts, as well as any gains and losses actually realized during the year. In these cases, any gain or loss recognized with respect to a futures contract is considered to be 60% long-term capital gain or loss and 40% short-term capital gain or loss, without regard to the holding period of the contract. Gains and losses on certain other futures contracts (primarily non-U.S. futures contracts) are not recognized until the contracts are closed and are treated as long-term or short-term, depending on the holding period of the contract. Sales of futures contracts that are intended to hedge against a change in the value of securities held by a fund may affect the holding period of such securities and, consequently, the nature of the gain or loss on such securities upon disposition. A fund may be required to defer the recognition of losses on one position, such as futures contracts, to the extent of any unrecognized gains on a related offsetting position held by the fund.

A fund will distribute to shareholders annually any net capital gains that have been recognized for federal income tax purposes on futures transactions. Such distributions will be combined with distributions of capital gains realized on the fund's other investments, and shareholders will be advised on the nature of the distributions.

**Tax Matters—Federal Tax Treatment of Non-U.S. Currency Transactions.** Special rules generally govern the federal income tax treatment of a fund's transactions in the following: non-U.S. currencies; non-U.S. currency-denominated debt obligations; and certain non-U.S. currency options, futures contracts, forward contracts, and similar instruments. Accordingly, if a fund engages in these types of transactions it may have ordinary income or loss to the extent that such income or loss results from fluctuations in the value of the non-U.S. currency concerned. Such ordinary income could accelerate fund distributions to shareholders and increase the distributions taxed to shareholders as ordinary income. Any ordinary loss so created will generally reduce ordinary income distributions and, in some cases, could require the recharacterization of prior ordinary income distributions. Net ordinary losses cannot be carried forward by the fund to offset income or gains realized in subsequent taxable years.

Any gain or loss attributable to the non-U.S. currency component of a transaction engaged in by a fund that is not subject to these special currency rules (such as foreign equity investments other than certain preferred stocks) will generally be treated as a capital gain or loss and will not be segregated from the gain or loss on the underlying transaction.

To the extent a fund engages in non-U.S. currency hedging, the fund may elect or be required to apply other rules that could affect the character, timing, or amount of the fund's gains and losses. For more information, see "*Tax Matters—Federal Tax Treatment of Derivatives, Hedging, and Related Transactions.*"

**Tax Matters—Foreign Tax Credit.** Foreign governments may withhold taxes on dividends and interest paid with respect to foreign securities held by a fund. Foreign governments may also impose taxes on other payments or gains with respect to foreign securities. If, at the close of its fiscal year, more than 50% of a fund's total assets are invested in securities of foreign issuers, the fund may elect to pass through to shareholders the ability to deduct or, if they meet certain holding period requirements, take a credit for foreign taxes paid by the fund. Similarly, if at the close of each quarter of a fund's taxable year, at least 50% of its total assets consist of interests in other regulated investment companies, the fund is permitted to elect to pass through to its shareholders the foreign income taxes paid by the fund in connection with foreign securities held directly by the fund or held by a regulated investment company in which the fund invests that has elected to pass through such taxes to shareholders.

**Tax Matters—Passive Foreign Investment Companies.** To the extent that a fund invests in stock in a foreign company, such stock may constitute an equity investment in a passive foreign investment company (PFIC). A foreign company is generally a PFIC if 75% or more of its gross income is passive or if 50% or more of its assets produce passive income. Capital gains on the sale of an interest in a PFIC will be deemed ordinary income regardless of how long a fund held it. Also, a fund may be subject to corporate income tax and an interest charge on certain dividends and capital gains earned in respect to PFIC interests, whether or not such amounts are distributed to shareholders. To avoid such tax and interest, a fund may elect to "mark to market" its PFIC interests, that is, to treat such interests as sold on the last day of a fund's fiscal year, and to recognize any unrealized gains (or losses, to the extent of previously recognized gains) as ordinary income (or loss) each year. Distributions from a fund that are attributable to income or gains earned in respect to PFIC interests are characterized as ordinary income.

**Tax Matters—Real Estate Mortgage Investment Conduits.** If a fund invests directly or indirectly, including through a REIT or other pass-through entity, in residual interests in real estate mortgage investment conduits (REMICs) or equity interests in taxable mortgage pools (TMPs), a portion of the fund’s income that is attributable to a residual interest in a REMIC or an equity interest in a TMP (such portion referred to in the IRC as an “excess inclusion”) will be subject to U.S. federal income tax in all events—including potentially at the fund level—under a notice issued by the IRS in October 2006 and U.S. Treasury regulations that have yet to be issued but may apply retroactively. This notice also provides, and the regulations are expected to provide, that excess inclusion income of a regulated investment company will be allocated to shareholders of the regulated investment company in proportion to the dividends received by such shareholders, with the same consequences as if the shareholders held the related interest directly. In general, excess inclusion income allocated to shareholders (1) cannot be offset by net operating losses (subject to a limited exception for certain thrift institutions); (2) will constitute unrelated business taxable income (UBTI) to entities (including a qualified pension plan, an individual retirement account, a 401(k) plan, a Keogh plan, or other tax-exempt entity) subject to tax on UBTI, thereby potentially requiring such an entity, which otherwise might not be required, to file a tax return and pay tax on such income; and (3) in the case of a non-U.S. investor, will not qualify for any reduction in U.S. federal withholding tax. A shareholder will be subject to U.S. federal income tax on such inclusions notwithstanding any exemption from such income tax otherwise available under the IRC. As a result, a fund investing in such interests may not be suitable for charitable remainder trusts. See “*Tax Matters—Tax-Exempt Investors.*”

**Tax Matters—Tax Considerations for Non-U.S. Investors.** U.S. withholding and estate taxes and certain U.S. tax reporting requirements may apply to any investments made by non-U.S. investors in Vanguard funds. Certain properly reported distributions of qualifying interest income or short-term capital gain made by a fund to its non-U.S. investors are exempt from U.S. withholding taxes, provided the investors furnish valid tax documentation (i.e., IRS Form W-8) certifying as to their non-U.S. status.

A fund is permitted, but is not required, to report any of its distributions as eligible for such relief, and some distributions (e.g., distributions of interest a fund receives from non-U.S. issuers) are not eligible for this relief. For some funds, Vanguard has chosen to report qualifying distributions and apply the withholding exemption to those distributions when made to non-U.S. shareholders who invest directly with Vanguard. For other funds, Vanguard may choose not to apply the withholding exemption to qualifying fund distributions made to direct shareholders, but may provide the reporting to such shareholders. In these cases, a shareholder may be able to reclaim such withholding tax directly from the IRS.

If shareholders hold fund shares (including ETF shares) through a broker or intermediary, their broker or intermediary may apply this relief to properly reported qualifying distributions made to shareholders with respect to those shares. If a shareholder’s broker or intermediary instead collects withholding tax where the fund has provided the proper reporting, the shareholder may be able to reclaim such withholding tax from the IRS. Please consult your broker or intermediary regarding the application of these rules.

This relief does not apply to any withholding required under the Foreign Account Tax Compliance Act (FATCA), which generally requires a fund to obtain information sufficient to identify the status of each of its shareholders. If a shareholder fails to provide this information or otherwise fails to comply with FATCA, a fund may be required to withhold under FATCA at a rate of 30% with respect to that shareholder on fund distributions. Please consult your tax advisor for more information about these rules.

**Tax Matters—Tax-Exempt Investors.** Income of a fund that would be UBTI if earned directly by a tax-exempt entity will not generally be attributed as UBTI to a tax-exempt shareholder of the fund. Notwithstanding this “blocking” effect, a tax-exempt shareholder could realize UBTI by virtue of its investment in a fund if shares in the fund constitute debt-financed property in the hands of the tax-exempt shareholder within the meaning of IRC Section 514(b).

A tax-exempt shareholder may also recognize UBTI if a fund recognizes “excess inclusion income” derived from direct or indirect investments in residual interests in REMICs or equity interests in TMPs. See “*Tax Matters—Real Estate Mortgage Investment Conduits.*”

In addition, special tax consequences apply to charitable remainder trusts that invest in a fund that invests directly or indirectly in residual interests in REMICs or equity interests in TMPs. Charitable remainder trusts and other tax-exempt investors are urged to consult their tax advisors concerning the consequences of investing in a fund.

**Time Deposits.** Time deposits are subject to the same risks that pertain to domestic issuers of money market instruments, most notably credit risk (and, to a lesser extent, income risk, market risk, and liquidity risk). Additionally, time deposits of foreign branches of U.S. banks and foreign branches of foreign banks may be subject to certain sovereign risks. One such risk is the possibility that a sovereign country might prevent capital, in the form of U.S.

dollars, from flowing across its borders. Other risks include adverse political and economic developments, the extent and quality of government regulation of financial markets and institutions, the imposition of foreign withholding taxes, and expropriation or nationalization of foreign issuers. However, time deposits of such issuers will undergo the same type of credit analysis as domestic issuers in which a Vanguard fund invests and will have at least the same financial strength as the domestic issuers approved for the fund.

**Warrants.** Warrants are instruments that give the holder the right, but not the obligation, to buy an equity security at a specific price for a specific period of time. Changes in the value of a warrant do not necessarily correspond to changes in the value of its underlying security. The price of a warrant may be more volatile than the price of its underlying security, and a warrant may offer greater potential for capital appreciation as well as capital loss. Warrants do not entitle a holder to dividends or voting rights with respect to the underlying security and do not represent any rights in the assets of the issuing company. A warrant ceases to have value if it is not exercised prior to its expiration date. These factors can make warrants more speculative than other types of investments. Other kinds of warrants exist, including, but not limited to, warrants linked to countries' economic performance or to commodity prices such as oil prices. These warrants may be subject to risk from fluctuation of underlying assets or indexes, as well as credit risk that the issuer does not pay on the obligations and risk that the data used for warrant payment calculation does not accurately reflect the true underlying commodity price or economic performance.

**When-Issued, Delayed-Delivery, and Forward-Commitment Transactions.** When-issued, delayed-delivery, and forward-commitment transactions involve a commitment to purchase or sell specific securities at a predetermined price or yield in which payment and delivery take place after the customary settlement period for that type of security. Typically, no interest accrues to the purchaser until the security is delivered. When purchasing securities pursuant to one of these transactions, payment for the securities is not required until the delivery date. However, the purchaser assumes the rights and risks of ownership, including the risks of price and yield fluctuations and the risk that the security will not be issued as anticipated. When a fund has sold a security pursuant to one of these transactions, the fund does not participate in further gains or losses with respect to the security. If the other party to a delayed-delivery transaction fails to deliver or pay for the securities, the fund could miss a favorable price or yield opportunity or suffer a loss. A fund may renegotiate a when-issued or forward-commitment transaction and may sell the underlying securities before delivery, which may result in capital gains or losses for the fund. When-issued, delayed-delivery, and forward-commitment transactions will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by the fund, if the fund complies with Rule 18f-4.

## SHARE PRICE

Multiple-class funds do not have a single share price. Rather, each class has a share price, also known as *net asset value* (NAV), which is calculated as of the close of regular trading on the New York Stock Exchange (NYSE), generally 4 p.m., Eastern time, on each day that the NYSE is open for business (a business day). In the rare event the NYSE experiences unanticipated disruptions and is unavailable at the close of the trading day, the Fund reserves the right to treat such day as a business day and calculate NAVs as of the close of regular trading on the Nasdaq (or another alternate exchange if the Nasdaq is unavailable, as determined at Vanguard's discretion), generally 4 p.m., Eastern time. The NAV per share is computed by dividing the total assets, minus liabilities, allocated to the share class by the number of Fund shares outstanding for that class. On U.S. holidays or other days when the NYSE is closed, the NAV is not calculated, and the Fund does not sell or redeem shares. However, on those days the value of the Fund's assets may be affected to the extent that the Fund holds securities that change in value on those days (such as foreign securities that trade on foreign markets that are open).

The NYSE typically observes the following holidays: New Year's Day; Martin Luther King, Jr., Day; Presidents' Day (Washington's Birthday); Good Friday; Memorial Day; Juneteenth National Independence Day; Independence Day; Labor Day; Thanksgiving Day; and Christmas Day. Although the Fund expects the same holidays to be observed in the future, the NYSE may modify its holiday schedule or hours of operation at any time.

## PURCHASE AND REDEMPTION OF SHARES

### Purchase of Shares

The purchase price of shares of the Fund is the NAV per share next determined after the purchase request is received in good order, as defined in the Fund's prospectus.

**Exchange of Securities for Shares of the Fund.** Shares of the Fund may be purchased “in kind” (i.e., in exchange for securities, rather than for cash) at the discretion of the Fund’s portfolio manager. Such securities must not be restricted as to transfer and must have a value that is readily ascertainable. Securities accepted by the Fund will be valued, as set forth in the Fund’s prospectus, as of the time of the next determination of NAV after such acceptance. All dividend, subscription, or other rights that are reflected in the market price of accepted securities at the time of valuation become the property of the Fund and must be delivered to the Fund by the investor upon receipt from the issuer. A gain or loss for federal income tax purposes, depending upon the cost of the securities tendered, would be realized by the investor upon the exchange. Investors interested in purchasing fund shares in kind should contact Vanguard.

## **Redemption of Shares**

The redemption price of shares of the Fund is the NAV per share next determined after the redemption request is received in good order, as defined in the Fund’s prospectus.

The Fund can postpone payment of redemption proceeds for up to seven calendar days. In addition, the Fund can suspend redemptions and/or postpone payments of redemption proceeds beyond seven calendar days (1) during any period that the NYSE is closed or trading on the NYSE is restricted as determined by the SEC; (2) during any period when an emergency exists, as defined by the SEC, as a result of which it is not reasonably practicable for the Fund to dispose of securities it owns or to fairly determine the value of its assets; or (3) for such other periods as the SEC may permit.

The Trust has filed a notice of election with the SEC to pay in cash all redemptions requested by any shareholder of record limited in amount during any 90-day period to the lesser of \$250,000 or 1% of the net assets of the Fund at the beginning of such period.

If Vanguard determines that it would be detrimental to the best interests of the remaining shareholders of the Fund to make payment wholly or partly in cash, the Fund may pay the redemption price in whole or in part by a distribution in kind of readily marketable securities held by the Fund in lieu of cash in conformity with applicable rules of the SEC and in accordance with procedures adopted by the Fund’s board of trustees. Investors may incur brokerage charges on the sale of such securities received in payment of redemptions.

The Fund does not charge a redemption fee. Shares redeemed may be worth more or less than what was paid for them, depending on the market value of the securities held by the Fund.

Vanguard processes purchase and redemption requests through a pooled account. Pending investment direction or distribution of redemption proceeds, the assets in the pooled account are invested and any earnings (the “float”) are allocated proportionately among the Vanguard funds in order to offset fund expenses. Other than the float, Vanguard treats assets held in the pooled account as the assets of each shareholder making such purchase or redemption request.

## **Right to Change Policies**

Vanguard reserves the right, without notice, to (1) alter, add, or discontinue any conditions of purchase (including eligibility requirements), redemption, exchange, conversion, service, or privilege at any time and (2) alter, impose, discontinue, or waive any purchase fee, redemption fee, account service fee, or other fee charged to a shareholder or a group of shareholders. Changes may affect any or all investors. These actions will be taken when, at the sole discretion of Vanguard management, Vanguard believes they are in the best interest of a fund.

## **Account Restrictions**

Vanguard reserves the right to: (1) redeem all or a portion of a fund/account to meet a legal obligation, including tax withholding, tax lien, garnishment order, or other obligation imposed on your account by a court or government agency; (2) redeem shares, close an account, or suspend account privileges, features, or options in the case of threatening conduct or activity; (3) redeem shares, close an account, or suspend account privileges, features, or options if Vanguard believes or suspects that not doing so could result in a suspicious, fraudulent, or illegal transaction; (4) place restrictions on the ability to redeem any or all shares in an account if it is required to do so by a court or government agency; (5) place restrictions on the ability to redeem any or all shares in an account if Vanguard believes that doing so will prevent



fraud or financial exploitation or abuse, or will protect vulnerable investors; (6) freeze any account and/or suspend account services if Vanguard has received reasonable notice of a dispute regarding the assets in an account, including notice of a dispute between the registered or beneficial account owners; and (7) freeze any account and/or suspend account services upon initial notification to Vanguard of the death of an account owner.

### Investing With Vanguard Through Other Firms

The Fund has authorized certain agents to accept on its behalf purchase and redemption orders, and those agents are authorized to designate other intermediaries to accept purchase and redemption orders on the Fund's behalf (collectively, Authorized Agents). The Fund will be deemed to have received a purchase or redemption order when an Authorized Agent accepts the order in accordance with the Fund's instructions. In most instances, a customer order that is properly transmitted to an Authorized Agent will be priced at the NAV per share next determined after the order is received by the Authorized Agent.

## MANAGEMENT OF THE FUND

### Vanguard

The Fund is part of the Vanguard group of investment companies, which consists of over 200 funds. The fund is a series of a Delaware statutory trust. The funds obtain virtually all of their corporate management, administrative, and distribution services through the trusts' jointly owned subsidiary, Vanguard. Vanguard may contract with certain third-party service providers to assist Vanguard in providing certain administrative and/or accounting services with respect to the funds, subject to Vanguard's oversight. Vanguard also provides investment advisory services to certain Vanguard funds. All of these services are provided at Vanguard's total cost of operations pursuant to the Fifth Amended and Restated Funds' Service Agreement (the Agreement).

Vanguard employs a supporting staff of management and administrative personnel needed to provide the requisite services to the funds and also furnishes the funds with necessary office space, furnishings, and equipment. Each fund (other than a fund of funds) pays its share of Vanguard's total expenses, which are allocated among the funds under methods approved by the board of trustees of each fund. In addition, each fund bears its own direct expenses, such as legal, auditing, and custodial fees.

Pursuant to an agreement between Vanguard and State Street Bank and Trust Company (State Street), State Street provides services for the Fund. These services include, but are not limited to: (i) the calculation of the Fund's daily NAVs and (ii) the furnishing of financial reports. The fees paid to State Street under this agreement are based on a combination of flat and asset based fees. During the fiscal years ended September 30, 2021, 2022, and 2023, State Street had received fees from the Fund for administrative services rendered as shown in the table below.

| <b>Vanguard Fund</b>            | <b>2021</b> | <b>2022</b> | <b>2023</b> |
|---------------------------------|-------------|-------------|-------------|
| Vanguard Growth and Income Fund | \$17,916.70 | \$21,500.04 | \$21,500.04 |

The funds' officers are also employees of Vanguard.

Vanguard, Vanguard Marketing Corporation (VMC), the funds, and the funds' advisors have adopted codes of ethics designed to prevent employees who may have access to nonpublic information about the trading activities of the funds (access persons) from profiting from that information. The codes of ethics permit access persons to invest in securities for their own accounts, including securities that may be held by a fund, but place substantive and procedural restrictions on the trading activities of access persons. For example, the codes of ethics require that access persons receive advance approval for most securities trades to ensure that there is no conflict with the trading activities of the funds.

Vanguard was established and operates under the Agreement. The Agreement provides that each Vanguard fund may be called upon to invest up to 0.40% of its net assets in Vanguard. The amounts that each fund has invested are adjusted from time to time in order to maintain the proportionate relationship between each fund's relative net assets and its contribution to Vanguard's capital.

As of September 30, 2023, the Fund had contributed capital to Vanguard as follows:

| Vanguard Fund                   | Capital Contribution to Vanguard | Percentage of Fund's Average Net Assets | Percent of Vanguard Funds' Contribution |
|---------------------------------|----------------------------------|---|---|
| Vanguard Growth and Income Fund | \$418,000                        | Less than 0.01%                         | 0.17%                                   |

**Management.** Corporate management and administrative services include (1) executive staff, (2) accounting and financial, (3) legal and regulatory, (4) shareholder account maintenance, (5) monitoring and control of custodian relationships, (6) shareholder reporting, and (7) review and evaluation of advisory and other services provided to the funds by third parties.

**Distribution.** Vanguard Marketing Corporation, 100 Vanguard Boulevard, Malvern, PA 19355, a wholly owned subsidiary of Vanguard, is the principal underwriter for the funds and in that capacity performs and finances marketing, promotional, and distribution activities (collectively, marketing and distribution activities) that are primarily intended to result in the sale of the funds' shares. VMC offers shares of each fund for sale on a continuous basis and will use all reasonable efforts in connection with the distribution of shares of the funds. VMC performs marketing and distribution activities in accordance with the conditions of a 1981 SEC exemptive order that permits the Vanguard funds to internalize and jointly finance the marketing, promotion, and distribution of their shares. The funds' trustees review and approve the marketing and distribution expenses incurred by the funds, including the nature and cost of the activities and the desirability of each fund's continued participation in the joint arrangement.

To ensure that each fund's participation in the joint arrangement falls within a reasonable range of fairness, each fund contributes to VMC's marketing and distribution expenses in accordance with an SEC-approved formula. Under that formula, one half of the marketing and distribution expenses are allocated among the funds based upon their relative net assets. The remaining half of those expenses is allocated among the funds based upon each fund's sales for the preceding 24 months relative to the total sales of the funds as a group, provided, however, that no fund's aggregate quarterly rate of contribution for marketing and distribution expenses shall exceed 125% of the average marketing and distribution expense rate for Vanguard and that no fund shall incur annual marketing and distribution expenses in excess of 0.20% of its average month-end net assets. Each fund's contribution to these marketing and distribution expenses helps to maintain and enhance the attractiveness and viability of the Vanguard complex as a whole, which benefits all of the funds and their shareholders.

VMC's principal marketing and distribution expenses are for advertising, promotional materials, and marketing personnel. Other marketing and distribution activities of an administrative nature that VMC undertakes on behalf of the funds may include, but are not limited to:

- Conducting or publishing Vanguard-generated research and analysis concerning the funds, other investments, the financial markets, or the economy.
- Providing views, opinions, advice, or commentary concerning the funds, other investments, the financial markets, or the economy.
- Providing analytical, statistical, performance, or other information concerning the funds, other investments, the financial markets, or the economy.
- Providing administrative services in connection with investments in the funds or other investments, including, but not limited to, shareholder services, recordkeeping services, and educational services.
- Providing products or services that assist investors or financial service providers (as defined below) in the investment decision-making process.

VMC performs most marketing and distribution activities itself. Some activities may be conducted by third parties pursuant to shared marketing arrangements under which VMC agrees to share the costs and performance of marketing and distribution activities in concert with a financial service provider. Financial service providers include, but are not limited to, investment advisors, broker-dealers, financial planners, financial consultants, banks, and insurance companies. Under these cost- and performance-sharing arrangements, VMC may pay or reimburse a financial service provider (or a third party it retains) for marketing and distribution activities that VMC would otherwise perform. VMC's cost- and performance-sharing arrangements may be established in connection with Vanguard investment products or services offered or provided to or through the financial service providers.

VMC's arrangements for shared marketing and distribution activities may vary among financial service providers, and its payments or reimbursements to financial service providers in connection with shared marketing and distribution activities may be significant. VMC, as a matter of policy, does not pay asset-based fees, sales-based fees, or account-based fees to financial service providers in connection with its marketing and distribution activities for the Vanguard funds. VMC does make fixed dollar payments to financial service providers when sponsoring, jointly sponsoring, financially supporting, or participating in conferences, programs, seminars, presentations, meetings, or other events involving fund shareholders, financial service providers, or others concerning the funds, other investments, the financial markets, or the economy, such as industry conferences, prospecting trips, due diligence visits, training or education meetings, and sales presentations. VMC also makes fixed dollar payments to financial service providers for data regarding funds, such as statistical information regarding sales of fund shares. In addition, VMC makes fixed dollar payments for expenses associated with financial service providers' use of Vanguard's funds including, but not limited to, the use of funds in model portfolios. These payments may be used for services including, but not limited to, technology support and development; platform support and development; due diligence related to products used on a platform; legal, regulatory, and compliance expenses related to a platform; and other platform-related services.

In connection with its marketing and distribution activities, VMC may give financial service providers (or their representatives) (1) promotional items of nominal value that display Vanguard's logo, such as golf balls, shirts, towels, pens, and mouse pads; (2) gifts that do not exceed \$100 per person annually and are not preconditioned on achievement of a sales target; (3) an occasional meal, a ticket to a sporting event or the theater, or comparable entertainment that is neither so frequent nor so extensive as to raise any question of propriety and is not preconditioned on achievement of a sales target; and (4) reasonable travel and lodging accommodations to facilitate participation in marketing and distribution activities.

VMC policy prohibits marketing and distribution activities that are intended, designed, or likely to compromise suitability determinations by, or the fulfillment of any fiduciary duties or other obligations that apply to, financial service providers. Nonetheless, VMC's marketing and distribution activities are primarily intended to result in the sale of the funds' shares, and as such, its activities, including shared marketing and distribution activities and fixed dollar payments as described above, may influence applicable financial service providers (or their representatives) to recommend, promote, include, or invest in a Vanguard fund or share class. In addition, Vanguard or any of its subsidiaries may retain a financial service provider to provide consulting or other services, and that financial service provider also may provide services to investors. Investors should consider the possibility that any of these activities, relationships, or payments may influence a financial service provider's (or its representatives') decision to recommend, promote, include, or invest in a Vanguard fund or share class. Each financial service provider should consider its suitability determinations, fiduciary duties, and other legal obligations (or those of its representatives) in connection with any decision to consider, recommend, promote, include, or invest in a Vanguard fund or share class.

The following table describes the expenses of Vanguard and VMC that are incurred by the Fund. Amounts captioned "Management and Administrative Expenses" include the Fund's allocated share of expenses associated with the management, administrative, and transfer agency services Vanguard provides to the Vanguard funds. Amounts captioned "Marketing and Distribution Expenses" include the Fund's allocated share of expenses associated with the marketing and distribution activities that VMC conducts on behalf of the Vanguard funds.

As is the case with all mutual funds, transaction costs incurred by the Fund for buying and selling securities are not reflected in the table. Annual Shared Fund Operating Expenses are based on expenses incurred in the fiscal years ended September 30, 2021, 2022, and 2023, and are presented as a percentage of the Fund's average month-end net assets.

**Annual Shared Fund Operating Expenses  
(Shared Expenses Deducted From Fund Assets)**

| Vanguard Fund                          | 2021           | 2022           | 2023           |
|--|----------------|----------------|----------------|
| <b>Vanguard Growth and Income Fund</b> |                |                |                |
| Management and Administrative Expenses | 0.16%          | 0.15%          | 0.15%          |
| Marketing and Distribution Expenses    | Less than 0.01 | Less than 0.01 | Less than 0.01 |

**Officers and Trustees**

Each Vanguard fund is governed by the board of trustees of its trust and a single set of officers. Consistent with the board's corporate governance principles, the trustees believe that their primary responsibility is oversight of the

management of each fund for the benefit of its shareholders, not day-to-day management. The trustees set broad policies for the funds; select investment advisors; monitor fund operations, regulatory compliance, performance, and costs; nominate and select new trustees; and elect fund officers. Vanguard manages the day-to-day operations of the funds under the direction of the board of trustees.

The trustees play an active role, as a full board and at the committee level, in overseeing risk management for the funds. The trustees delegate the day-to-day risk management of the funds to various groups, including portfolio review, investment management, risk management, compliance, legal, fund accounting, and fund services and oversight. These groups provide the trustees with regular reports regarding investment, valuation, liquidity, and compliance, as well as the risks associated with each. The trustees also oversee risk management for the funds through regular interactions with the funds' internal and external auditors.

The full board participates in the funds' risk oversight, in part, through the Vanguard funds' compliance program, which covers the following broad areas of compliance: investment and other operations; recordkeeping; valuation and pricing; communications and disclosure; reporting and accounting; oversight of service providers; fund governance; and codes of ethics, insider trading controls, and protection of nonpublic information. The program seeks to identify and assess risk through various methods, including through regular interdisciplinary communications between compliance professionals and business personnel who participate on a daily basis in risk management on behalf of the funds. The funds' chief compliance officer regularly provides reports to the board in writing and in person.

The audit committee of the board, which is composed of F. Joseph Loughrey, Mark Loughridge, Sarah Bloom Raskin, and Peter F. Volanakis, each of whom is an independent trustee, oversees management of financial risks and controls. The audit committee serves as the channel of communication between the independent auditors of the funds and the board with respect to financial statements and financial reporting processes, systems of internal control, and the audit process. Vanguard's head of internal audit reports directly to the audit committee and provides reports to the committee in writing and in person on a regular basis. Although the audit committee is responsible for overseeing the management of financial risks, the entire board is regularly informed of these risks through committee reports.

All of the trustees bring to each fund's board a wealth of executive leadership experience derived from their service as executives (in many cases chief executive officers), board members, and leaders of diverse public operating companies, academic institutions, and other organizations. In determining whether an individual is qualified to serve as a trustee of the funds, the board considers a wide variety of information about the trustee, and multiple factors contribute to the board's decision. Each trustee is determined to have the experience, skills, and attributes necessary to serve the funds and their shareholders because each trustee demonstrates an exceptional ability to consider complex business and financial matters, evaluate the relative importance and priority of issues, make decisions, and contribute effectively to the deliberations of the board. The board also considers the individual experience of each trustee and determines that the trustee's professional experience, education, and background contribute to the diversity of perspectives on the board. The business acumen, experience, and objective thinking of the trustees are considered invaluable assets for Vanguard management and, ultimately, the Vanguard funds' shareholders. The specific roles and experience of each board member that factor into this determination are presented on the following pages. The mailing address of the trustees and officers is P.O. Box 876, Valley Forge, PA 19482.

| <b>Name, Year of Birth</b>   | <b>Position(s)<br/>Held With Fund</b>                         | <b>Vanguard<br/>Funds' Trustee/<br/>Officer Since</b> | <b>Principal Occupation(s)<br/>During the Past Five Years,<br/>Outside Directorships,<br/>and Other Experience</b>   | <b>Number of<br/>Vanguard Funds<br/>Overseen by<br/>Trustee/Officer</b> |
|--|---|---|--|---|
| <b>Interested Trustee<sup>1</sup></b>  |   |   |  |   |
| Mortimer J. Buckley<br>(1969)  | Chairman of the Board, Chief Executive Officer, and President | January 2018  | Chairman of the board (2019–present) of Vanguard and of each of the investment companies served by Vanguard; chief executive officer (2018–present) of Vanguard; chief executive officer, president, and trustee (2018–present) of each of the investment companies served by Vanguard; president and director (2017–present) of Vanguard; and president (2018–present) of Vanguard Marketing Corporation. Chief investment officer (2013–2017), managing director (2002–2017), head of the Retail Investor Group (2006–2012), and chief information officer (2001–2006) of Vanguard. Member of the board of governors of the Investment Company Institute and of FINRA.   | 210   |
| 1 Mr. Buckley is considered an “interested person” as defined in the 1940 Act because he is an officer of the Trust. |   |   |  |   |
| <b>Independent Trustees</b>  |   |   |  |   |
| Tara Bunch<br>(1962)   | Trustee   | November 2021   | Head of Global Operations at Airbnb (2020–present). Vice President of AppleCare (2012–2020). Member of the board of Out & Equal, the University of California, Berkeley School of Engineering, and Santa Clara University’s School of Business.  | 210   |
| Emerson U. Fullwood<br>(1948)  | Trustee   | January 2008  | Executive chief staff and marketing officer for North America and corporate vice president (retired 2008) of Xerox Corporation (document management products and services). Former president of the Worldwide Channels Group, Latin America, and Worldwide Customer Service and executive chief staff officer of Developing Markets of Xerox. Executive in residence and 2009–2010 Distinguished Minett Professor at the Rochester Institute of Technology. Member of the board of directors of the University of Rochester Medical Center, the Monroe Community College Foundation, the United Way of Rochester, North Carolina A&T University, Roberts Wesleyan College, and the Rochester Philharmonic Orchestra. Trustee of the University of Rochester. | 210   |
| F. Joseph Loughrey<br>(1949)   | Trustee   | October 2009  | President and chief operating officer (retired 2009) and vice chairman of the board (2008–2009) of Cummins Inc. (industrial machinery). Director of the V Foundation. Member of the advisory council for the College of Arts and Letters at the University of Notre Dame. Chairman of the board of Saint Anselm College.   | 210   |
| Mark Loughridge<br>(1953)  | Lead Independent Trustee                                      | March 2012  | Senior vice president and chief financial officer (retired 2013) of IBM (information technology services). Fiduciary member of IBM’s Retirement Plan Committee (2004–2013), senior vice president and general manager (2002–2004) of IBM Global Financing, vice president and controller (1998–2002) of IBM, and a variety of other prior management roles at IBM. Member of the Council on Chicago Booth.   | 210   |

| <b>Name, Year of Birth</b>   | <b>Position(s)<br/>Held With Fund</b> | <b>Vanguard<br/>Funds' Trustee/<br/>Officer Since</b> | <b>Principal Occupation(s)<br/>During the Past Five Years,<br/>Outside Directorships,<br/>and Other Experience</b>   | <b>Number of<br/>Vanguard Funds<br/>Overseen by<br/>Trustee/Officer</b> |
|------------------------------|---------------------------------------|---|--|---|
| Scott C. Malpass<br>(1962)   | Trustee                               | March 2012  | Co-founder and managing partner (2022-present) of Grafton Street Partners (investment advisory firm). Chief investment officer and vice president of the University of Notre Dame (retired 2020). Chair of the board of Catholic Investment Services, Inc. (investment advisors). Member of the board of superintendence of the Institute for the Works of Religion. Member of the Notre Dame 403(b) Investment Committee and the board of directors of Paxos Trust Company (finance).   | 210   |
| Deanna Mulligan<br>(1963)    | Trustee                               | January 2018  | Chief executive officer of Purposeful (2021–present). Board chair (2020), chief executive officer (2011–2020), and president (2010–2019) of The Guardian Life Insurance Company of America. Chief operating officer (2010–2011) and executive vice president (2008–2010) of Individual Life and Disability of The Guardian Life Insurance Company of America. Director of DuPont. Member of the board of the Economic Club of New York. Trustee of the Partnership for New York City (business leadership), the Chief Executives for Corporate Purpose, and the New York-Presbyterian Hospital.  | 210   |
| Lubos Pastor<br>(1974)       | Trustee                               | January 2024  | Charles P. McQuaid Distinguished Service Professor of Finance (2023-present) at the University of Chicago Booth School of Business; Charles P. McQuaid Professor of Finance at the University of Chicago Booth School of Business (2009-2023). Vice President at European Finance Association. Member of the board of the Fama-Miller Center for Research in Finance. Research Associate at the National Bureau of Economic Research, and Research Fellow at the Centre for Economic Policy and Research. Member of Center for Research in Security Prices (CRSP) Index Advisory Council and Advisory Board.                                 | 210   |
| André F. Perold<br>(1952)    | Trustee                               | December 2004   | George Gund Professor of Finance and Banking, Emeritus at the Harvard Business School (retired 2011). Chief investment officer and partner of HighVista Strategies LLC (private investment firm). Board member of RIT Capital Partners (investment firm).  | 210   |
| Sarah Bloom Raskin<br>(1961) | Trustee                               | January 2018  | Deputy secretary (2014–2017) of the United States Department of the Treasury. Governor (2010–2014) of the Federal Reserve Board. Commissioner (2007–2010) of financial regulation for the State of Maryland. Colin W. Brown Distinguished Professor of the Practice, Duke Law School (2021–present); Rubenstein Fellow, Duke University (2017–2020); Distinguished Fellow of the Global Financial Markets Center, Duke Law School (2020–2022); and Senior Fellow, Duke Center on Risk (2020–present). Partner of Kaya Partners (climate policy advisory services). Member of the board of directors of Arcadia (energy solution technology). | 210   |
| Grant Reid<br>(1959)         | Trustee                               | July 2023   | Chief executive officer and president (2014–2022) and member of the board of directors (2015–2022) of Mars, Incorporated (multinational manufacturer). Member of the board of directors of Marriott International, Inc. Chair of Agribusiness Task Force, Sustainable Markets Initiative.  | 210   |

| <b>Name, Year of Birth</b>   | <b>Position(s)<br/>Held With Fund</b> | <b>Vanguard<br/>Funds' Trustee/<br/>Officer Since</b> | <b>Principal Occupation(s)<br/>During the Past Five Years,<br/>Outside Directorships,<br/>and Other Experience</b>   | <b>Number of<br/>Vanguard Funds<br/>Overseen by<br/>Trustee/Officer</b> |
|------------------------------|---------------------------------------|---|--|---|
| David Thomas<br>(1956)       | Trustee                               | July 2021   | President of Morehouse College (2018–present). Professor of Business Administration Emeritus at Harvard University (2017–2018) and Dean (2011–2016) and Professor of Management at Georgetown University, McDonough School of Business (2016–2017). Director of DTE Energy Company. Trustee of Common Fund.  | 210   |
| Peter F. Volanakis<br>(1955) | Trustee                               | July 2009   | President and chief operating officer (retired 2010) of Corning Incorporated (communications equipment) and director of Corning Incorporated (2000–2010) and Dow Corning (2001–2010). Director (2012) of SPX Corporation (multi-industry manufacturing). Overseer of the Amos Tuck School of Business Administration, Dartmouth College (2001–2013). Member of the BMW Group Mobility Council.           | 210   |
| <b>Executive Officers</b>    |                                       |   |  |   |
| Jacqueline Angell<br>(1974)  | Chief<br>Compliance<br>Officer        | November 2022   | Principal of Vanguard. Chief compliance officer (2022–present) of Vanguard and of each of the investment companies served by Vanguard. Chief compliance officer (2018–2022) and deputy chief compliance officer (2017–2019) of State Street.   | 210   |
| Christine Buchanan<br>(1970) | Chief Financial<br>Officer            | November 2017   | Principal of Vanguard. Chief financial officer (2021–present) and treasurer (2017–2021) of each of the investment companies served by Vanguard. Partner (2005–2017) at KPMG (audit, tax, and advisory services).   | 210   |
| John Galloway<br>(1973)      | Investment<br>Stewardship<br>Officer  | September 2020  | Principal of Vanguard. Investment stewardship officer (2020–present) of each of the investment companies served by Vanguard. Head of Investor Advocacy (2020–present) and head of Marketing Strategy and Planning (2017–2020) at Vanguard. Special Assistant to the President of the United States (2015).   | 210   |
| Ashley Grim<br>(1984)        | Treasurer                             | February 2022   | Treasurer (2022–present) of each of the investment companies served by Vanguard. Fund transfer agent controller (2019–2022) and director of Audit Services (2017–2019) at Vanguard. Senior manager (2015–2017) at PriceWaterhouseCoopers (audit and assurance, consulting, and tax services).  | 210   |
| Jodi Miller<br>(1980)        | Finance Director                      | September<br>2022                                     | Principal of Vanguard. Finance director (2022–present) of each of the investment companies served by Vanguard. Head of Enterprise Investment Services (2020–present), Head of Retail Client Services & Operations (2020–2022), and Head of Retail Strategic Support (2018–2020) at Vanguard.   | 210   |
| Anne E. Robinson<br>(1970)   | Secretary                             | September 2016  | General counsel (2016–present) of Vanguard. Secretary (2016–present) of Vanguard and of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Managing director and general counsel of Global Cards and Consumer Services (2014–2016) at Citigroup. Counsel (2003–2014) at American Express. Non-executive director of the board of National Grid (energy). | 210   |

| Name, Year of Birth     | Position(s) Held With Fund | Vanguard Funds' Trustee/ Officer Since | Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience   | Number of Vanguard Funds Overseen by Trustee/Officer |
|-------------------------|----------------------------|--|---|--|
| Michael Rollings (1963) | Finance Director           | February 2017                          | Finance director (2017–present) and treasurer (2017) of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Chief financial officer (2016–present) of Vanguard. Director (2016–present) of Vanguard Marketing Corporation. Executive vice president and chief financial officer (2006–2016) of MassMutual Financial Group. | 210  |

All but one of the trustees are independent. The independent trustees designate a lead independent trustee. The lead independent trustee is a spokesperson and principal point of contact for the independent trustees and is responsible for coordinating the activities of the independent trustees, including calling regular executive sessions of the independent trustees; developing the agenda of each meeting together with the chairman; and chairing the meetings of the independent trustees. The lead independent trustee also chairs the meetings of the audit, compensation, and nominating committees. The board also has two investment committees, which consist of independent trustees and the sole interested trustee.

The independent trustees appoint the chairman of the board. The roles of chairman of the board and chief executive officer currently are held by the same person; as a result, the chairman of the board is an “interested” trustee. The independent trustees generally believe that the Vanguard funds’ chief executive officer is best qualified to serve as chairman and that fund shareholders benefit from this leadership structure through accountability and strong day-to-day leadership.

Board Committees: The Trust's board has the following committees:

- **Audit Committee:** This committee oversees the accounting and financial reporting policies, the systems of internal controls, and the independent audits of each fund. The following independent trustees serve as members of the committee: Mr. Loughrey, Mr. Loughridge, Ms. Raskin, and Mr. Volanakis. The committee held six meetings during the Trust's fiscal year ended September 30, 2023.
- **Compensation Committee:** This committee oversees the compensation programs established by each fund for the benefit of its trustees. All independent trustees serve as members of the committee. The committee held five meetings during the Trust's fiscal year ended September 30, 2023.
- **Independent Governance Committee:** This committee assists the board in fulfilling its responsibilities and is empowered to exercise board powers in the intervals between board meetings unless such action is prohibited by applicable law or Trust bylaws. The following independent trustees serve as members of the committee: Mr. Loughridge, Ms. Mulligan, Mr. Perold, Ms. Raskin, and Mr. Volanakis. The committee held four meetings during the Trust's fiscal year ended September 30, 2023.
- **Investment Committees:** These committees assist the board in its oversight of investment advisors to the funds and in the review and evaluation of materials relating to the board’s consideration of investment advisory agreements with the funds. Each trustee serves on one of two investment committees. Each investment committee held three meetings during the Trust’s fiscal year ended September 30, 2023.
- **Nominating Committee:** This committee nominates candidates for election to the board of trustees of each fund. The committee also has the authority to recommend the removal of any trustee. All independent trustees serve as members of the committee. The committee held six meetings during the Trust's fiscal year ended September 30, 2023.

The Nominating Committee will consider shareholder recommendations for trustee nominees. Shareholders may send recommendations to Mr. Loughridge, chairman of the committee.

Trustees retire in accordance with the funds’ governing documents and policies, and typically by age 75.

### Trustee Compensation

The same individuals serve as trustees of all Vanguard funds and each fund pays a proportionate share of the trustees’ compensation. Vanguard funds also employ their officers on a shared basis; however, officers are compensated by Vanguard, not the funds.



**Independent Trustees.** The funds compensate their independent trustees (i.e., the ones who are not also officers of the funds) in two ways:

- The independent trustees receive an annual fee for their service to the funds, which is subject to reduction based on absences from scheduled board meetings.
- The independent trustees are reimbursed for the travel and other expenses that they incur in attending board meetings.

**“Interested” Trustee.** Mr. Buckley serves as a trustee, but is not paid in this capacity. He is, however, paid in his role as an officer of Vanguard.

**Compensation Table.** The following table provides compensation details for each of the trustees. We list the amounts paid as compensation by the Fund for each trustee. In addition, the table shows the total amount of compensation paid to each trustee by all Vanguard funds.

**VANGUARD QUANTITATIVE FUNDS  
TRUSTEES’ COMPENSATION TABLE**

| Trustee                   | Aggregate<br>Compensation From<br>the Funds <sup>1</sup> | Total Compensation<br>From All Vanguard<br>Funds Paid to Trustees <sup>2</sup> |
|---------------------------|--|--|
| Mortimer J. Buckley       | —  | —  |
| Tara Bunch                | \$604  | \$330,000  |
| Emerson U. Fullwood       | 604  | 330,000  |
| F. Joseph Loughrey        | 641  | 350,000  |
| Mark Loughridge           | 734  | 400,000  |
| Scott C. Malpass          | 604  | 330,000  |
| Deanna Mulligan           | 604  | 330,000  |
| Lubos Pastor <sup>3</sup> | —  | —  |
| André F. Perold           | 604  | 330,000  |
| Sarah Bloom Raskin        | 641  | 350,000  |
| Grant Reid <sup>4</sup>   | 86   | 188,572  |
| David Thomas              | 604  | 330,000  |
| Peter F. Volanakis        | 641  | 350,000  |

1 The amounts shown in this column are based on the Trust’s fiscal year ended September 30, 2023.

2 The amounts reported in this column reflect the total compensation paid to each trustee for his or her service as trustee of 208 Vanguard funds for the 2023 calendar year and include any amount a trustee has elected to defer. During the 2023 calendar year, the following trustees elected to defer all or a portion of their compensation as follows: Ms. Bunch, \$330,000; Ms. Mulligan, \$330,000; Mr. Perold, \$330,000; Ms. Raskin, \$175,000; Mr. Reid, \$188,572; and Dr. Thomas, \$165,000.

3 Mr. Pastor became a member of the Funds’ board effective January 1, 2024.

4 Mr. Reid became a member of the Funds’ board effective July 20, 2023.

## Ownership of Fund Shares

All current trustees allocate their investments among the various Vanguard funds based on their own investment needs. The following table shows each trustee's ownership of shares of the Fund and of all Vanguard funds served by the trustee as of December 31, 2023.

### VANGUARD QUANTITATIVE FUNDS

| Vanguard Fund                   | Trustee             | Dollar Range of Fund Shares Owned by Trustee | Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee |
|---------------------------------|---------------------|--|---|
| Vanguard Growth and Income Fund | Mortimer J. Buckley | —  | Over \$100,000  |
|                                 | Tara Bunch          | —  | Over \$100,000  |
|                                 | Emerson U. Fullwood | —  | Over \$100,000  |
|                                 | F. Joseph Loughrey  | —  | Over \$100,000  |
|                                 | Mark Loughridge     | —  | Over \$100,000  |
|                                 | Scott C. Malpass    | —  | Over \$100,000  |
|                                 | Deanna Mulligan     | —  | Over \$100,000  |
|                                 | Lubos Pastor        | —  | Over \$100,000  |
|                                 | André F. Perold     | —  | Over \$100,000  |
|                                 | Sarah Bloom Raskin  | —  | Over \$100,000  |
|                                 | Grant Reid          | —  | Over \$100,000  |
|                                 | David Thomas        | —  | Over \$100,000  |
|                                 | Peter F. Volanakis  | —  | Over \$100,000  |

As of December 31, 2023, the trustees and officers of the funds owned, in the aggregate, less than 1% of each class of each fund's outstanding shares.

As of December 31, 2023, the following owned of record 5% or more of the outstanding shares of each class:

| Vanguard Fund                   | Share Class     | Owner and Address                                 | Percentage of Ownership |
|---------------------------------|-----------------|---|-------------------------|
| Vanguard Growth and Income Fund | Investor Shares | CHARLES SCHWAB & CO INC SAN FRANCISCO, CA         | 8.04%                   |
|                                 |                 | VANGUARD DIVERSIFIED EQUITY FUND VALLEY FORGE, PA | 15.85%                  |
|                                 |                 | NATIONAL FINANCIAL SERV CORP JERSEY CITY, NJ      | 5.76%                   |

## Portfolio Holdings Disclosure Policies and Procedures

### Introduction

Vanguard and the boards of trustees of the Vanguard funds (the Boards) have adopted Portfolio Holdings Disclosure Policies and Procedures (Policies and Procedures) to govern the disclosure of the portfolio holdings of each Vanguard fund. Vanguard and the Boards considered each of the circumstances under which Vanguard fund portfolio holdings may be disclosed to different categories of persons under the Policies and Procedures. Vanguard and the Boards also considered actual and potential material conflicts that could arise in such circumstances between the interests of Vanguard fund shareholders, on the one hand, and those of the fund's investment advisor, sub-advisor, distributor, or any affiliated person of the fund, its investment advisor, sub-advisor, or its distributor, on the other. After giving due consideration to such matters and after the exercise of their fiduciary duties and reasonable business judgment, Vanguard and the Boards determined that the Vanguard funds have a legitimate business purpose for disclosing

portfolio holdings to the persons described in each of the circumstances set forth in the Policies and Procedures and that the Policies and Procedures are reasonably designed to ensure that disclosure of portfolio holdings and information about portfolio holdings is in the best interests of fund shareholders and appropriately addresses the potential for material conflicts of interest.

The Boards exercise continuing oversight of the disclosure of Vanguard fund portfolio holdings by (1) overseeing the implementation and enforcement of the Policies and Procedures, the Code of Ethical Conduct, and the Policies and Procedures Designed to Prevent the Misuse of Inside Information (collectively, the portfolio holdings governing policies) by the chief compliance officer of Vanguard and the Vanguard funds; (2) considering reports and recommendations by the chief compliance officer concerning any material compliance matters (as defined in Rule 38a-1 under the 1940 Act and Rule 206(4)-7 under the Investment Advisers Act of 1940) that may arise in connection with any portfolio holdings governing policies; and (3) considering whether to approve or ratify any amendment to any portfolio holdings governing policies.

Vanguard and the Boards reserve the right to amend the Policies and Procedures at any time and from time to time without prior notice at their sole discretion. For purposes of the Policies and Procedures, the term “portfolio holdings” means the equity and debt securities (e.g., stocks and bonds) held by a Vanguard fund and does not mean the cash equivalent investments, derivatives, and other investment positions (collectively, other investment positions) held by the fund.

### **Online Disclosure of Complete Portfolio Holdings**

Each actively managed Vanguard fund, unless otherwise stated, generally will seek to disclose the fund’s complete portfolio holdings as of the end of the most recent calendar quarter online at *vanguard.com* 30 calendar days after the end of the calendar quarter. Each Vanguard fund relying on Rule 6c-11 under the 1940 Act (e.g., standalone ETFs) generally will seek to disclose complete portfolio holdings, including other investment positions, at the beginning of each business day. These portfolio holdings, including other investment positions, will be disclosed online at *vanguard.com*. In accordance with Rule 2a-7 under the 1940 Act, each of the Vanguard money market funds will disclose the fund’s complete portfolio holdings as of the last business day of the prior month online at *vanguard.com* no later than the fifth business day of the current month. The complete portfolio holdings information for money market funds will remain available online for at least six months after the initial posting. Each Vanguard index fund, other than those Vanguard index funds relying on Rule 6c-11 under the 1940 Act (e.g., standalone ETFs), generally will seek to disclose the fund’s complete portfolio holdings as of the end of the most recent month online at *vanguard.com*, 15 calendar days after the end of the month. Online disclosure of complete portfolio holdings is made to all categories of persons, including individual investors, institutional investors, intermediaries, third-party service providers, rating and ranking organizations, affiliated persons of a Vanguard fund, and all other persons. Vanguard will review complete portfolio holdings before disclosure is made and, except with respect to the complete portfolio holdings of the Vanguard money market funds, may withhold any portion of the fund’s complete portfolio holdings from disclosure when deemed to be in the best interests of the fund after consultation with a Vanguard fund’s investment advisor.

### **Disclosure of Complete Portfolio Holdings to Service Providers Subject to Confidentiality and Trading Restrictions**

Vanguard, for legitimate business purposes, may disclose Vanguard fund complete portfolio holdings at times it deems necessary and appropriate to rating and ranking organizations; financial printers; proxy voting service providers; pricing information vendors; issuers of guaranteed investment contracts for stable value portfolios; third parties that deliver analytical, statistical, or consulting services; and other third parties that provide services (collectively, Service Providers) to Vanguard, Vanguard subsidiaries, and/or the Vanguard funds. Disclosure of complete portfolio holdings to a Service Provider is conditioned on the Service Provider being subject to a written agreement imposing a duty of confidentiality, including a duty not to trade on the basis of any material nonpublic information.

The frequency with which complete portfolio holdings may be disclosed to a Service Provider, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed to the Service Provider, is determined based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure to a Service Provider varies and may be as frequent as daily,

with no lag. Disclosure of Vanguard fund complete portfolio holdings by Vanguard to a Service Provider must be authorized by a Vanguard fund officer or a Principal in Vanguard's Portfolio Review Department or Office of the General Counsel. Any disclosure of Vanguard fund complete portfolio holdings to a Service Provider as previously described may also include a list of the other investment positions that make up the fund, such as cash equivalent investments and derivatives.

Currently, Vanguard fund complete portfolio holdings are disclosed to the following Service Providers as part of ongoing arrangements that serve legitimate business purposes: Abel/Noser Corporation; Advisor Software, Inc.; Alcom Printing Group Inc.; Apple Press, L.C.; Bloomberg L.P.; Brilliant Graphics, Inc.; Broadridge Financial Solutions, Inc.; Brown Brothers Harriman & Co.; Canon Business Process Services; Charles River Systems, Inc.; Eagle Investments; Equilend; FactSet Research Systems Inc.; Gresham Technologies, Plc.; Innovation Printing & Communications; Institutional Shareholder Services, Inc.; Intelligencer Printing Company; Investment Technology Group, Inc.; Lipper, Inc.; Markit WSO Corporation; McMunn Associates, Inc.; Morningstar; Pirium; Reuters America Inc.; R.R. Donnelley, Inc.; State Street Bank and Trust Company; Stonewain; and Trade Informatics LLC.

### **Disclosure of Complete Portfolio Holdings to Vanguard Affiliates and Certain Fiduciaries Subject to Confidentiality and Trading Restrictions**

Vanguard fund complete portfolio holdings may be disclosed between and among the following persons (collectively, Affiliates and Fiduciaries) for legitimate business purposes within the scope of their official duties and responsibilities, subject to such persons' continuing legal duty of confidentiality and legal duty not to trade on the basis of any material nonpublic information, as such duties are imposed under the Code of Ethical Conduct, the Policies and Procedures Designed to Prevent the Misuse of Inside Information, by agreement, or under applicable laws, rules, and regulations: (1) persons who are subject to the Code of Ethical Conduct or the Policies and Procedures Designed to Prevent the Misuse of Inside Information; (2) an investment advisor, sub-advisor, distributor, administrator, transfer agent, or custodian to a Vanguard fund; (3) an accounting firm, an auditing firm, or outside legal counsel retained by Vanguard, a Vanguard subsidiary, or a Vanguard fund; (4) an investment advisor to whom complete portfolio holdings are disclosed for due diligence purposes when the advisor is in merger or acquisition talks with a Vanguard fund's current advisor; and (5) a newly hired investment advisor or sub-advisor to whom complete portfolio holdings are disclosed prior to the time it commences its duties.

The frequency with which complete portfolio holdings may be disclosed between and among Affiliates and Fiduciaries, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed between and among the Affiliates and Fiduciaries, is determined by such Affiliates and Fiduciaries based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure between and among Affiliates and Fiduciaries varies and may be as frequent as daily, with no lag. Any disclosure of Vanguard fund complete portfolio holdings to any Affiliates and Fiduciaries as previously described may also include a list of the other investment positions that make up the fund, such as cash equivalent investments and derivatives. Disclosure of Vanguard fund complete portfolio holdings or other investment positions by Vanguard, VMC, or a Vanguard fund to Affiliates and Fiduciaries must be authorized by a Vanguard fund officer or a Principal of Vanguard.

Currently, Vanguard discloses complete portfolio holdings to the following Affiliates and Fiduciaries as part of ongoing arrangements that serve legitimate business purposes: Vanguard and each investment advisor, sub-advisor, custodian, and independent registered public accounting firm identified in each fund's Statement of Additional Information.

### **Disclosure of Portfolio Holdings to Trading Counterparties in the Normal Course of Managing a Fund's Assets**

An investment advisor, sub-advisor, administrator, or custodian for a Vanguard fund may, for legitimate business purposes within the scope of its official duties and responsibilities, disclose portfolio holdings (whether partial portfolio holdings or complete portfolio holdings) and other investment positions that make up the fund to any trading counterparty, including one or more broker-dealers or banks, during the course of, or in connection with, normal day-to-day securities and derivatives transactions with or through such trading counterparties subject to the counterparty's legal obligation not to use or disclose material nonpublic information concerning the fund's portfolio holdings, other investment positions, securities transactions, or derivatives transactions without the consent of the fund

or its agents. The Vanguard funds have not given their consent to any such use or disclosure and no person or agent of Vanguard is authorized to give such consent except as approved in writing by the Boards of the Vanguard funds. Disclosure of portfolio holdings or other investment positions by Vanguard to trading counterparties must be authorized by a Vanguard fund officer or a Principal of Vanguard.

In addition to the disclosures described below to Authorized Participants, a Vanguard fund investment advisor or administrator may also disclose portfolio holdings information to other current or prospective fund shareholders in connection with the dissemination of information necessary for transactions in Creation Units (as defined below) or other large transactions with a Vanguard fund. Such shareholders are typically Authorized Participants or other financial institutions that have been authorized by VMC to purchase and redeem large blocks of shares, but may also include market makers and other institutional market participants and entities to whom a Vanguard fund advisor or administrator may provide information in connection with transactions in a Vanguard fund.

### **Disclosure of Nonmaterial Information**

The Policies and Procedures permit Vanguard fund officers, Vanguard fund portfolio managers, and other Vanguard representatives (collectively, Approved Vanguard Representatives) to disclose any views, opinions, judgments, advice, or commentary, or any analytical, statistical, performance, or other information, in connection with or relating to a Vanguard fund or its portfolio holdings and/or other investment positions (collectively, commentary and analysis) or any changes in the portfolio holdings of a Vanguard fund that occurred after the end of the most recent calendar quarter (recent portfolio changes) to any person if (1) such disclosure serves a legitimate business purpose, (2) such disclosure does not effectively result in the disclosure of the complete portfolio holdings of any Vanguard fund (which can be disclosed only in accordance with the Policies and Procedures), and (3) such information does not constitute material nonpublic information. Disclosure of commentary and analysis or recent portfolio changes by Vanguard, VMC, or a Vanguard fund must be authorized by a Vanguard fund officer or a Principal of Vanguard.

An Approved Vanguard Representative must make a good faith determination whether the information constitutes material nonpublic information, which involves an assessment of the particular facts and circumstances. Vanguard believes that in most cases recent portfolio changes that involve a few or even several securities in a diversified portfolio or commentary and analysis would be immaterial and would not convey any advantage to a recipient in making an investment decision concerning a Vanguard fund. Nonexclusive examples of commentary and analysis about a Vanguard fund include (1) the allocation of the fund's portfolio holdings and other investment positions among various asset classes, sectors, industries, and countries; (2) the characteristics of the stock and bond components of the fund's portfolio holdings and other investment positions; (3) the attribution of fund returns by asset class, sector, industry, and country; and (4) the volatility characteristics of the fund. Approved Vanguard Representatives may, at their sole discretion, deny any request for information made by any person, and may do so for any reason or for no reason. Approved Vanguard Representatives include, for purposes of the Policies and Procedures, persons employed by or associated with Vanguard or a subsidiary of Vanguard who have been authorized by Vanguard's Portfolio Review Department to disclose recent portfolio changes and/or commentary and analysis in accordance with the Policies and Procedures.

### **Disclosure of Portfolio Holdings Related Information to the Issuer of a Security for Legitimate Business Purposes**

Vanguard, at its sole discretion, may disclose portfolio holdings information concerning a security held by one or more Vanguard funds to the issuer of such security if the issuer presents, to the satisfaction of Vanguard's Fund Services and Oversight unit, convincing evidence that the issuer has a legitimate business purpose for such information. Disclosure of this information to an issuer is conditioned on the issuer being subject to a written agreement imposing a duty of confidentiality, including a duty not to trade on the basis of any material nonpublic information. The frequency with which portfolio holdings information concerning a security may be disclosed to the issuer of such security, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed to the issuer, is determined based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure to an issuer cannot be determined in advance of a specific request and will vary based upon the particular facts and circumstances and the legitimate business purposes, but in unusual situations could be as frequent as daily, with no lag. Disclosure of portfolio holdings information concerning a security held by one or more Vanguard funds to the issuer of such security must be authorized by a Vanguard fund officer or a Principal in Vanguard's Equity Investment Group, Portfolio Review Department, or Office of the General Counsel.

## **Disclosure of Portfolio Holdings as Required by Applicable Law**

Vanguard fund portfolio holdings (whether partial portfolio holdings or complete portfolio holdings) and other investment positions that make up a fund shall be disclosed to any person as required by applicable laws, rules, and regulations. Examples of such required disclosure include, but are not limited to, disclosure of Vanguard fund portfolio holdings (1) in a filing or submission with the SEC or another regulatory body, (2) in connection with seeking recovery on defaulted bonds in a federal bankruptcy case, (3) in connection with a lawsuit, or (4) as required by court order. Disclosure of portfolio holdings or other investment positions by Vanguard, VMC, or a Vanguard fund as required by applicable laws, rules, and regulations must be authorized by a Vanguard fund officer or a Principal of Vanguard.

## **Prohibitions on Disclosure of Portfolio Holdings**

No person is authorized to disclose Vanguard fund portfolio holdings or other investment positions (whether online at *vanguard.com*, in writing, by fax, by email, orally, or by other means) except in accordance with the Policies and Procedures. In addition, no person is authorized to make disclosure pursuant to the Policies and Procedures if such disclosure is otherwise unlawful under the antifraud provisions of the federal securities laws (as defined in Rule 38a-1 under the 1940 Act). Furthermore, Vanguard's management, at its sole discretion, may determine not to disclose portfolio holdings or other investment positions that make up a Vanguard fund to any person who would otherwise be eligible to receive such information under the Policies and Procedures, or may determine to make such disclosures publicly as provided by the Policies and Procedures.

## **Prohibitions on Receipt of Compensation or Other Consideration**

The Policies and Procedures prohibit a Vanguard fund, its investment advisor, and any other person or entity from paying or receiving any compensation or other consideration of any type for the purpose of obtaining disclosure of Vanguard fund portfolio holdings or other investment positions. "Consideration" includes any agreement to maintain assets in the fund or in other investment companies or accounts managed by the investment advisor or sub-advisor or by any affiliated person of the investment advisor or sub-advisor.

## **INVESTMENT ADVISORY AND OTHER SERVICES**

The Trust currently uses three investment advisors:

- D. E. Shaw Investment Management, L.L.C., (DESIM) provides investment advisory services for a portion of Vanguard Growth and Income Fund.
- Los Angeles Capital Management LLC (Los Angeles Capital) provides investment advisory services for a portion of Vanguard Growth and Income Fund.
- Wellington Management Company LLP (Wellington Management) provides investment advisory services for a portion of Vanguard Growth and Income Fund.

The Vanguard Group, Inc. (Vanguard), through its Quantitative Equity Group, provided investment advisory services for a portion of Vanguard Growth and Income Fund from September 2011 until August 2023.

For funds that are advised by independent third-party advisory firms unaffiliated with Vanguard, the board of trustees of each fund hires investment advisory firms, not individual portfolio managers, to provide investment advisory services to such funds. Vanguard negotiates each advisory agreement, which contains advisory fee arrangements, on an arm's length basis with the advisory firm. Each advisory agreement is reviewed annually by each fund's board of trustees, taking into account numerous factors, which include, without limitation: the nature, extent, and quality of the services provided; investment performance; and the fair market value of the services provided. Each advisory agreement is between the Trust and the advisory firm, not between the Trust and the portfolio manager. The structure of the advisory fee paid to each unaffiliated investment advisory firm is described in the following sections. In addition, each firm has established policies and procedures designed to address the potential for conflicts of interest. Each firm's compensation structure and management of potential conflicts of interest are summarized by the advisory firm in the following sections for the fiscal year ended September 30, 2023 (unless otherwise noted).

A fund is a party to an investment advisory agreement with each of its independent third-party advisors whereby the advisor manages the investment and reinvestment of the portion of the fund's assets that the fund's board of trustees determines to assign to the advisor. In this capacity, each advisor continuously reviews, supervises, and administers the investment program for its portion of the fund's assets. Hereafter, each portion will be referred to as the advisor's Portfolio. Each advisor discharges its responsibilities subject to the supervision and oversight of Vanguard's Portfolio

Review Department and the officers and trustees of the fund. Vanguard's Portfolio Review Department is responsible for recommending changes in a fund's advisory arrangements to the fund's board of trustees, including changes in the amount of assets allocated to each advisor, and whether to hire, terminate, or replace an advisor.

Vanguard Growth and Income Fund uses a multimanager approach. The Fund currently has three investment advisors: D. E. Shaw Investment Management, L.L.C.; Los Angeles Capital Management LLC; and Wellington Management Company LLP.

The Fund pays each of its investment advisors a base fee plus or minus a performance adjustment. The base fee, which is paid quarterly, is a percentage of average daily net assets managed by the advisor during the most recent fiscal quarter. The base fee has breakpoints, which means that the percentage declines as assets go up. The performance adjustment, also paid quarterly, is based on the cumulative total return of each advisor's portion of the Fund relative to that of the S&P 500 Index over the preceding 36-month period (for DESIM and Wellington Management) or 60-month period (for Los Angeles Capital).

During the fiscal years ended September 30, 2021, 2022, and 2023, the Fund incurred aggregate investment advisory fees and expenses of approximately \$12,105,000 (before a performance-based decrease of \$600,000), \$11,396,000 (before a performance-based decrease of \$1,000,000), and \$11,309,000 (before a performance-based decrease of \$1,039,000), respectively.

Of the aggregate fees and expenses previously described, the investment advisory expenses paid to Vanguard for the fiscal year ended September 30, 2023, were \$925,000 (representing an effective annual rate of 0.01%). The investment advisory fees paid to the remaining advisors for the fiscal year ended September 30, 2023, were \$9,345,000 (representing an effective annual rate of 0.08%).

#### A. D. E. Shaw Investment Management, L.L.C. (DESIM)

DESIM is a privately-owned investment management firm headquartered in New York City. It is a wholly owned subsidiary of D. E. Shaw & Co., L.P., a global investment and technology development firm that was established in 1988.

#### 1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended September 30, 2023 (unless otherwise noted):

| Portfolio Manager |   | No. of accounts | Total assets | Total assets in accounts with performance-based fees |  |
|-------------------|---|-----------------|--------------|--|--|
|                   |   |                 |              | No. of accounts with performance-based fees          | Total assets in accounts with performance-based fees |
| Ruvim Breydo      | Registered investment companies <sup>1, 2</sup> | 3               | \$14.2B      | 1  | \$11.9B  |
|                   | Other pooled investment vehicles                | 13              | \$ 8.4B      | 10   | \$ 6.4B  |
|                   | Other accounts                                  | 1               | \$ 3.8B      | 3  | \$ 2B  |

<sup>1</sup> One of the accounts referenced in this row is managed by DESIM in its capacity as a subadvisor to a Registered Investment Company.

<sup>2</sup> Includes Vanguard Growth and Income Fund, which held assets of \$11.9 billion as of September 30, 2023.

#### 2. Material Conflicts of Interest

DESIM manages portfolios for a number of clients (including separately managed accounts, funds of one, and pooled investment vehicles) on its benchmark-relative Active Equity platform. In addition, DESIM and other entities within the D. E. Shaw group manage a variety of investment vehicles with investment objectives different from the portfolios managed by DESIM on its Active Equity platform. DESIM and its affiliates may employ, for their own account and/or for accounts of clients other than the Fund, investment systems, methods, tools, techniques, or strategies similar to or different from those employed by DESIM for the Fund (such activities, collectively, "Other Management Activities"). DESIM and its affiliates may also pursue investment opportunities, engage or hold interests in businesses of any nature, or render services of any kind to any other business, venture, or client (such activities, collectively, "Other Business Activities"). DESIM is not required to offer its Other Business Activities to the Fund.

In the normal course of its business activities, DESIM and its affiliates may face a variety of conflicts of interest, including those related to its Other Management Activities and Other Business Activities. For example, any current or future Other Management Activity or Other Business Activity could compete with the Fund for the purchase or sale of investments and could take positions opposite to or different from those taken for the Fund. To the extent permitted by

applicable law, DESIM or its affiliates may effect “cross transactions” between client accounts in which one client will purchase securities held by another client. In addition, DESIM may be restricted by D. E. Shaw group policy, applicable law, or other considerations from purchasing or selling for the Fund the securities of issuers in which affiliates of DESIM are or may in the future be invested, or with which employees of such affiliates are commercially or professionally involved.

Although DESIM personnel expect to devote a certain amount of time and effort to the business and affairs of the Fund, such personnel will also devote a substantial (and probably greater) amount of working time and effort to DESIM’s Other Management Activities or Other Business Activities. These other activities may require substantial commitments of time and resources by such personnel. DESIM has established a variety of restrictions, procedures, and disclosures designed to address potential conflicts between or among the interests of its clients and the interests of itself and/or its affiliates. DESIM has also designed its automated trading systems, through which the overwhelming majority of trading activity on behalf of Active Equity clients is routed, with the intent that trades are allocated over time among DESIM’s Active Equity clients in a fair and equitable manner. In addition, the compliance function within the D. E. Shaw group’s Legal & Compliance department creates and implements various internal policies and procedures, including monitoring of outside activities, monitoring trading in employees’ personal accounts, and maintaining a list of restricted securities. When conflicts of interest do arise, the D. E. Shaw group aims to address them in compliance with all legal and regulatory requirements and such restrictions, procedures, and disclosures, as applicable.

### **3. Description of Compensation**

The total compensation of the named portfolio managers is structured as a base draw and a calendar year-end bonus. The base draw is generally fixed as of the beginning of each year, and the bonus amount is determined shortly after year-end. The year-end bonus typically accounts for the majority of the portfolio managers’ total compensation and varies from year to year to a much greater degree than the base draw. The amount of the year-end bonus is based on the overall financial performance of the D. E. Shaw group and the particular investment strategy (or strategies) that the portfolio managers supervise. The payment of any such year-end bonus is subject to various conditions, and the amount may be zero under certain circumstances.

In addition, a portion of the year-end bonus is subject to mandatory deferral in accordance with the firm’s deferred compensation plan, generally vesting in equal portions over a three-year period. The amount of the portfolio managers’ compensation deferred in any year varies with total compensation but is generally a significant portion of the year-end bonus. In accordance with the terms of the deferred compensation applicable to the portfolio managers, participants in the plan who voluntarily elect to leave the firm (other than in connection with retirement) will generally forfeit significant portions of any unvested deferred compensation; the portfolio managers thus have an economic incentive to remain with the firm.

### **4. Ownership of Securities**

As of September 30, 2023, Mr. Breydo did not own any shares of the Fund.



## B. Los Angeles Capital Management LLC (Los Angeles Capital)

Los Angeles Capital is an employee-owned California limited liability company founded in 2002.

### 1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended September 30, 2023 (unless otherwise noted):

| Portfolio Manager           |  | No. of accounts | Total assets | No. of accounts with performance-based fees | Total assets in accounts with performance-based fees |
|-----------------------------|--|-----------------|--------------|---|--|
| Kristin Ceglar <sup>1</sup> | Registered investment companies <sup>2</sup> | 5               | \$ 12.2B     | 1   | \$ 11.9B   |
|                             | Other pooled investment vehicles             | 3               | \$271.2M     | 1   | \$81.2M  |
|                             | Other accounts                               | 14              | \$ 7.6B      | 4   | \$ 6.1B  |
| Hal W. Reynolds             | Registered investment companies <sup>2</sup> | 16              | \$ 15.9B     | 1   | \$ 11.9B   |
|                             | Other pooled investment vehicles             | 19              | \$ 11.7B     | 4   | \$ 1.4B  |
|                             | Other accounts                               | 45              | \$ 12B       | 10  | \$ 8.5B  |

<sup>1</sup> Ms. Ceglar began co-managing the Los Angeles Capital portion of Vanguard Growth and Income Fund in December 2023.

<sup>2</sup> Includes Vanguard Growth and Income Fund, which held assets of \$11.9 billion as of September 30, 2023.

### 2. Material Conflicts of Interest

Los Angeles Capital has adopted policies and procedures, including brokerage and trade allocation policies and procedures, which the firm believes are reasonably designed to manage, monitor and prevent the firm from inappropriately favoring one account over another. Procedures adopted by Los Angeles Capital seek to treat all clients fairly and equally over time and to mitigate conflicts among accounts. Client accounts are managed independent of one another in accordance with client specific mandates, restrictions, and instructions as outlined in the investment management agreement, and such restrictions and instructions are monitored for compliance with the client's investment guidelines.

Side-by-side management can result in investment positions or actions taken for one client account that differ from those taken in another client account. Accordingly, one client account can engage in short sales of or take a short position in an investment that at the same time is owned or being purchased long by another client account. These positions and actions can adversely affect or benefit different clients at different times.

The firm manages client accounts that have different investment strategies, objectives, restrictions, constraints, launch dates, and overlapping benchmark constituents. Given these customizations and differences, it is possible that Los Angeles Capital may be purchasing or holding a security for one account and simultaneously selling the same security for another account. However, simultaneously purchasing and selling the same security in the same account ("wash trades") is prohibited. Additionally, it is possible for Los Angeles Capital to purchase or sell the same security for different accounts during the same trading day.

The decision as to which accounts participate in an investment opportunity will take into account, among other things, the quantitative model's outlook on the account's strategy, the account's investment guidelines, and risk metrics. Global accounts' orders are sent to the market simultaneously subject to prevailing market conditions, client flows, and liquidity. Emerging markets account orders are aggregated during account rebalances, but the firm is not required to do so.

Los Angeles Capital's proprietary optimization-based software for trading client portfolios complements the firm's approach to stock selection and uses real-time market prices to parse the master ("parent") order lists into a sub-list or "child" order lists, for execution by agency brokers. For accounts traded using the firm's trade optimization technology, real-time market prices are the primary creation determinant in each child order. Therefore, names traded for one account (or group of accounts) may result in different execution prices than a name traded for another account (or group of accounts). The firm's trade optimization technology is currently available in the Americas only.

While each client account is managed individually with trade allocation determined prior to placing each trade with the broker, Los Angeles Capital may, at any given time, purchase or sell the same security in a block that is allocated among multiple accounts. Los Angeles Capital will generally execute transactions for clients on an aggregate basis when it believes that to do so would allow it to obtain best execution and remain consistent with the account's investment guidelines. As such, Los Angeles Capital, from time to time, evaluates account trade lists for sizable or potentially illiquid

transactions that may be aggregated among several concurrent account rebalances. There are a number of variables that can influence a decision to aggregate purchases or sales into a block, including but not limited to, order size, liquidity, client trading directives, regulatory limitations, round lot requirements, and cash flows. When there is decision making on whether to include or exclude certain accounts from a block transaction, there is always the potential for conflicts of interest. Furthermore, the effect of trade aggregation may work on some occasions to the account's disadvantage. Los Angeles Capital's policies and procedures in allocating trades are structured to treat all clients fairly. Los Angeles Capital is not required to aggregate any particular trade. For example, an account with directed brokerage may not participate in certain block trades.

The firm's strategies predominantly invest in liquid common stocks. Depending on market conditions, liquidity considerations, and client activity, various trading strategies are analyzed and employed by the Firm's traders and/or portfolio managers. These strategies include, but are not limited to, varying the frequency and order of account rebalances (for example, weekly, semimonthly, monthly, or quarterly trade rotations), varying the grouping of accounts traded on a particular day (for example, trading U.S. accounts before global accounts or rotating weeks between strategies), varying account turnover, aggregating trade lists, aggregating specific names within trade lists, varying names traded as a block, varying the usage and implementation of the Firm's proprietary trade optimization technology, use of limit orders, and adjusting executing broker trade strategy instructions. The Firm reserves the right to explore trade strategies, methods, and processes to further its best execution mandate for client accounts. Based on a variety of factors including the strategy, guidelines, and turnover goals, Los Angeles Capital determines the trading frequency for each account. Most accounts currently trade at least semimonthly, and others may trade more or less frequently depending on turnover goals, market conditions, and other factors unique to the strategy or markets in which they are invested.

The firm has also designed a proprietary brokerage allocation randomization system to objectively pair which brokers to use to execute account transactions based on regional market eligibility/suitability characteristics as well as perceived execution capability of the broker in such regional markets. The firm's proprietary accounts, which are primarily invested in liquid, benchmark securities, may be traded in rotation with client accounts or on a particular day of the week depending on liquidity, size, model constraints, and resource constraints. The order of account rebalances may work on some occasions to the account's advantage or disadvantage.

Los Angeles Capital's portfolio managers manage accounts that are charged a performance-based fee alongside accounts in the same strategy with asset-based fee schedules. While performance-based fee arrangements may be viewed as creating an incentive to favor certain accounts over others in the allocation of investment opportunities, Los Angeles Capital has designed and implemented procedures that seek to treat all clients fairly and equally, and to prevent conflicts from influencing the allocation of investment opportunities. Management and performance fees inure to the benefit of the firm as a whole and not to specific individuals or groups of individuals. Further, Los Angeles Capital employs a quantitative investment process which utilizes the firm's proprietary investment model technology to identify securities and construct portfolios.

Los Angeles Capital has adopted a Code of Ethics that includes procedures on ethical conduct and personal trading and requires pre-clearance authorization from both the Trading and Compliance and Regulatory Risk Departments for certain personal security transactions. Nonetheless, because the Code of Ethics in some circumstances would permit employees to invest in the same securities as clients, there is a possibility that employees might benefit from market activity by a client in a security held by an employee. Employee trading is monitored under the Code of Ethics, and is designed to reasonably identify and prevent conflicts of interest between the firm and its clients.

Investment personnel of Los Angeles Capital or its affiliate may be permitted to be commercially or professionally involved with an issuer of securities. There is a potential risk that Los Angeles Capital personnel may place their own interests (resulting from outside employment/directorships) ahead of the interests of Los Angeles Capital clients. Before engaging in any outside business activity, employees must obtain approval of the CCO as well as other personnel. Any potential conflicts of interest from such involvement are monitored for compliance with Los Angeles Capital's Code of Ethics. The Code of Ethics also governs employees giving or accepting gifts and entertainment.

### **3. Description of Compensation**

Los Angeles Capital's portfolio managers participate in a competitive compensation program that is aimed at attracting and retaining talented employees with an emphasis on disciplined risk management, ethics and compliance-centered behavior. No component of Los Angeles Capital's compensation policy or payment scheme is tied to the performance of one or more client portfolios or funds.

Each portfolio manager receives a base salary fixed from year to year. In addition, the portfolio managers participate in the firm's profit sharing plan. The aggregate amount of the contribution to the firm's profit sharing plan is based on overall firm profitability with amounts paid to individual employees based on their relative overall compensation. Each portfolio manager also is a shareholder of the firm and receives compensation based upon the firm's overall profits. Ms. Ceglar is also eligible to receive a discretionary bonus from the firm.

#### 4. Ownership of Securities

As of September 30, 2023, Mr. Reynolds owned shares of the Fund within the \$10,001–\$50,000 range and Ms. Ceglar did not own any shares of the Fund.

#### C. Wellington Management Company LLP (Wellington Management)

Wellington Management is a Delaware limited liability partnership with principal offices at 280 Congress Street, Boston, MA 02210. Wellington Management is a professional investment counseling firm that provides investment services to investment companies, employee benefit plans, endowments, foundations, and other institutions. Wellington Management and its predecessor organizations have provided investment advisory services for over 80 years. Wellington Management is owned by the partners of Wellington Management Group LLP, a Massachusetts limited liability partnership.

#### 1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio manager of the Fund as of September 30, 2023 (unless otherwise noted):

| Portfolio Manager |  | No. of accounts | Total assets | No. of accounts with performance-based fees | Total assets in accounts with performance-based fees |
|-------------------|--|-----------------|--------------|---|--|
| Mary Pryshlak     | Registered investment companies <sup>1</sup> | 16              | \$21.4B      | 3   | \$12.6B  |
|                   | Other pooled investment vehicles             | 52              | \$15.3B      | 7   | \$ 3.6B  |
|                   | Other accounts                               | 89              | \$29.3B      | 11  | \$ 5.6B  |

<sup>1</sup> Includes Vanguard Growth and Income Fund, which held assets of \$11.9 billion as of September 30, 2023.

#### 2. Material Conflicts of Interest

Individual investment professionals at Wellington Management manage multiple accounts for multiple clients. These accounts may include mutual funds, separate accounts (assets managed on behalf of institutions, such as pension funds, insurance companies, foundations, or separately managed account programs sponsored by financial intermediaries), bank common trust accounts, and hedge funds. The Wellington Management Portfolio's or Fund's manager listed in the prospectus who is primarily responsible for the day-to-day management of the Wellington Management Portfolio or Fund (Portfolio Manager) generally manages accounts in several different investment styles. These accounts may have investment objectives, strategies, time horizons, tax considerations, and risk profiles that differ from those of the Wellington Management Portfolio or Fund. The Portfolio Manager makes investment decisions for each account, including the Wellington Management Portfolio or Fund, based on the investment objectives, policies, practices, benchmarks, cash flows, tax, and other relevant investment considerations applicable to that account. Consequently, the Portfolio Manager may purchase or sell securities, including initial public offerings (IPOs), for one account and not another account, and the performance of securities purchased for one account may vary from the performance of securities purchased for other accounts. Alternatively, these accounts may be managed in a similar fashion to the Wellington Management Portfolio or Fund and thus the accounts may have similar—and in some cases nearly identical—objectives, strategies, and/or holdings to those of the Wellington Management Portfolio or Fund.

The Portfolio Manager or other investment professionals at Wellington Management may place transactions on behalf of other accounts that are directly or indirectly contrary to investment decisions made on behalf of the Wellington Management Portfolio or Fund, or make investment decisions that are similar to those made for the Wellington Management Portfolio or Fund, both of which have the potential to adversely impact the Wellington Management Portfolio or Fund depending on market conditions. For example, an investment professional may purchase a security in one account while appropriately selling that same security in another account. Similarly, the Portfolio Manager may purchase the same security for the Wellington Management Portfolio or Fund and one or more other accounts at or about the same time. In those instances, the other accounts will have access to their respective holdings prior to the

public disclosure of the Wellington Management Portfolio's or Fund's holdings. In addition, some of these accounts have fee structures, including performance fees, which are or have the potential to be higher, in some cases significantly higher, than the fees Wellington Management receives for managing the Wellington Management Portfolio or Fund. Ms. Pryshlak also manages accounts that pay performance allocations to Wellington Management or its affiliates. Because incentive payments paid by Wellington Management to the Portfolio Manager are tied to revenues earned by Wellington Management and, where noted, to the performance achieved by the manager in each account, the incentives associated with any given account may be significantly higher or lower than those associated with other accounts managed by a given Portfolio Manager. Finally, the Portfolio Manager may hold shares or investments in the other pooled investment vehicles and/or other accounts identified above.

Wellington Management's goal is to meet its fiduciary obligation to treat all clients fairly and provide high-quality investment services to all of its clients. Wellington Management has adopted and implemented policies and procedures, including brokerage and trade allocation policies and procedures, which it believes address the conflicts associated with managing multiple accounts for multiple clients. In addition, Wellington Management monitors a variety of areas, including compliance with primary account guidelines, the allocation of IPOs, and compliance with the firm's Code of Ethics, and places additional investment restrictions on investment professionals who manage hedge funds and certain other accounts. Furthermore, senior investment and business personnel at Wellington Management periodically review the performance of Wellington Management's investment professionals. Although Wellington Management does not track the time an investment professional spends on a single account, Wellington Management does periodically assess whether an investment professional has adequate time and resources to effectively manage the investment professional's various client mandates.

### **3. Description of Compensation**

Wellington Management receives a fee based on the assets under management of the Wellington Management Portfolio or Fund as set forth in the Investment Advisory Agreement between Wellington Management and the Trust on behalf of the Fund. Wellington Management pays its investment professionals out of its total revenues, including the advisory fee earned with respect to the Wellington Management Portfolio or Fund. The following is as of September 30, 2023.

Wellington Management's compensation structure is designed to attract and retain high-caliber investment professionals necessary to deliver high-quality investment management services to its clients. Wellington Management's compensation of the Wellington Management Portfolio's or Fund's manager listed in the prospectus who is primarily responsible for the day-to-day management of the Wellington Management Portfolio or Fund includes a base salary. The base salary for the Portfolio Manager who is a partner (a "Partner") of Wellington Management Group LLP, the ultimate holding company of Wellington Management, is generally a fixed amount that is determined by the managing partners of Wellington Management Group LLP. The Portfolio Manager does not receive an incentive payment based on the revenues earned by Wellington Management from the Fund managed by the Portfolio Manager.

The Portfolio Manager may also be eligible for bonus payments based on her overall contribution to Wellington Management's business operations. Senior management at Wellington Management may reward individuals as it deems appropriate based on other factors. Each Partner is eligible to participate in a Partner-funded tax-qualified retirement plan, the contributions to which are made pursuant to an actuarial formula. Ms. Pryshlak is a Partner.

### **4. Ownership of Securities**

As of September 30, 2023, Ms. Pryshlak did not own any shares of the Fund.

### **Duration and Termination of Investment Advisory Agreements**

The Fund's current investment advisory agreements with the unaffiliated advisors are renewable for successive one-year periods, only if (1) the renewal is specifically approved by a vote of the Fund's board of trustees, including the affirmative votes of a majority of the trustees who are not parties to the agreement or "interested persons" (as defined in the 1940 Act) of any such party, cast in person at a meeting called for the purpose of considering such approval, or (2) the renewal is specifically approved by a vote of a majority of the Fund's outstanding voting securities. An agreement is automatically terminated if assigned and may be terminated without penalty at any time either (1) by vote of the board of trustees of the Fund upon thirty (30) days' written notice to the advisor, (2) by a vote of a majority of the Fund's outstanding voting securities upon 30 days' written notice to the advisor, or (3) by the advisor upon ninety (90) days' written notice to the Fund.

The initial investment advisory agreement with Wellington Management for Vanguard Growth and Income Fund is binding for a two-year period. At the end of that two-year period, the agreement will become renewable for successive one-year periods, subject to the above conditions.

## Securities Lending

The following table describes the securities lending activities of the Fund during the fiscal year ended September 30, 2023:

| Vanguard Fund  | Securities Lending Activities |
|--|-------------------------------|
| <b>Vanguard Growth and Income Fund</b>   |                               |
| <i>Gross income from securities lending activities</i>   | \$65,476                      |
| Fees paid to securities lending agent from a revenue split   | \$0                           |
| Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split | \$363                         |
| Administrative fees not included in revenue split  | \$688                         |
| Indemnification fee not included in revenue split  | \$0                           |
| Rebate (paid to borrower)  | \$21,795                      |
| Other fees not included in revenue split (specify)   | \$0                           |
| Aggregate fees/compensation for securities lending activities  | \$22,846                      |
| <i>Net income from securities lending activities</i>   | <b>\$42,630</b>               |

The services provided by Brown Brothers Harriman & Co. and Vanguard, each acting separately as securities lending agents for certain Vanguard funds, include coordinating the selection of securities to be loaned to approved borrowers; negotiating the terms of the loan; monitoring the value of the securities loaned and corresponding collateral, marking to market daily; coordinating the investment of cash collateral in the funds' approved cash collateral reinvestment vehicle; monitoring dividends and coordinating material proxy votes relating to loaned securities; and transferring, recalling, and arranging the return of loaned securities to the funds upon termination of the loan.

## PORTFOLIO TRANSACTIONS

The advisor decides which securities to buy and sell on behalf of the Fund and then selects the brokers or dealers that will execute the trades on an agency basis or the dealers with whom the trades will be effected on a principal basis. For each trade, the advisor must select a broker-dealer that it believes will provide "best execution." Best execution does not necessarily mean paying the lowest spread or commission rate available. In seeking best execution, the SEC has said that an advisor should consider the full range of a broker-dealer's services. The factors considered by the advisor in seeking best execution include, but are not limited to, the broker-dealer's execution capability, clearance and settlement services, commission rate, trading expertise, willingness and ability to commit capital, ability to provide anonymity, financial responsibility, reputation and integrity, responsiveness, access to underwritten offerings and secondary markets, and access to company management, as well as the value of any research provided by the broker-dealer. In assessing which broker-dealer can provide best execution for a particular trade, the advisor also may consider the timing and size of the order and available liquidity and current market conditions. Subject to applicable legal requirements, the advisor may select a broker based partly on brokerage or research services provided to the advisor and its clients, including the Fund. The advisor may cause the Fund to pay a higher commission than other brokers would charge if the advisor determines in good faith that the amount of the commission is reasonable in relation to the value of services provided. The advisor also may receive brokerage or research services from broker-dealers that are provided at no charge in recognition of the volume of trades directed to the broker. To the extent research services or products may be a factor in selecting brokers, services and products may include written research reports analyzing performance or securities, discussions with research analysts, meetings with corporate executives to obtain oral reports on company performance, market data, and other products and services that will assist the advisor in its investment decision-making process. The research services provided by brokers through which the Fund effects securities transactions may be used by the advisor in servicing all of its accounts, and some of the services may not be used by the advisor in connection with the Fund.

During the fiscal years ended September 30, 2021, 2022, and 2023, the Fund paid the following approximate amounts in brokerage commissions. Brokerage commissions paid by a fund may be substantially different from year to year for multiple reasons, such as market volatility, cash flows, or changes to the securities that make up a fund's target index.

| Vanguard Fund                                | 2021      | 2022      | 2023        |
|--|-----------|-----------|-------------|
| Vanguard Growth and Income Fund <sup>1</sup> | \$872,000 | \$744,000 | \$1,170,000 |

<sup>1</sup> The increase in brokerage commissions paid by the fund during the fiscal year ended September 30, 2023 was due to higher than normal portfolio turnover, which was driven by the addition of Wellington Management and removal of Vanguard as an advisor to the Fund in May 2023.

Some securities that are considered for investment by the Fund may also be appropriate for other Vanguard funds or for other clients served by the advisors. If such securities are compatible with the investment policies of the Fund and one or more of the advisor's other clients, and are considered for purchase or sale at or about the same time, then transactions in such securities may be aggregated by the advisor, and the purchased securities or sale proceeds may be allocated among the participating Vanguard funds and the other participating clients of the advisor in a manner deemed equitable by the advisor. Although there may be no specified formula for allocating such transactions, the allocation methods used, and the results of such allocations, will be subject to periodic review by the Fund's board of trustees.

As of September 30, 2023, the Fund held securities of its "regular brokers or dealers," as that term is defined in Rule 10b-1 of the 1940 Act, as follows:

| Vanguard Fund                   | Regular Broker or Dealer (or Parent) | Aggregate Holdings |
|---------------------------------|--------------------------------------|--------------------|
| Vanguard Growth and Income Fund | BofA Securities, Inc.                | \$ 9,602,000       |
|                                 | J.P. Morgan Securities LLC           | 77,537,000         |
|                                 | Jefferies LLC                        | 571,000            |
|                                 | UBS Securities LLC                   | 1,065,000          |

## PROXY VOTING

### I. Proxy Voting Policies

The Board of Trustees of the Fund (the Board) has delegated the authority to vote proxies related to the portfolio securities held by the Fund to its advisor(s). Each advisor will vote such proxies in accordance with its own proxy voting policies and procedures, which are summarized in *Appendix A*.

Vanguard has entered into agreements with various state, federal, and non-U.S. regulators and with certain issuers that limit the amount of shares that the funds may vote at their discretion for particular securities. For these securities, the funds are able to vote a limited portion of the shares at their discretion. Any additional shares generally are voted in the same proportion as votes cast by the issuer's entire shareholder base (i.e., mirror voted), or the fund is not permitted to vote such shares. Further, the Board has adopted policies that will result in certain funds mirror voting a higher proportion of the shares they own in a regulated issuer in order to permit certain other funds (generally advised by managers not affiliated with Vanguard) to mirror vote none, or a lower proportion, of their shares in such regulated issuer.

### II. Securities Lending

There may be occasions when Vanguard needs to restrict lending of and/or recall securities that are out on loan in order to vote the full position at a shareholder meeting. Vanguard has processes in place for advisors unaffiliated with Vanguard who have been delegated authority to vote proxies on behalf of certain Vanguard funds to inform Vanguard of an upcoming vote they deem to be material in accordance with such advisor's proxy voting policies and procedures in order for Vanguard to instruct the recall of the security.

To obtain a free copy of a report that details how the Fund voted the proxies relating to the portfolio securities held by the Fund for the prior 12-month period ended on June 30, log on to [vanguard.com](http://vanguard.com) or visit the SEC's website at [sec.gov](http://sec.gov).

## FINANCIAL STATEMENTS

The Fund's Financial Statements for the fiscal year ended September 30, 2023, appearing in the Fund's 2023 [Annual Report](#) to Shareholders, and the reports thereon of PricewaterhouseCoopers LLP, an independent registered public accounting firm, also appearing therein, are incorporated by reference into this Statement of Additional Information. For a more complete discussion of the Fund's performance, please see the Fund's Annual and Semiannual Reports to Shareholders, which may be obtained without charge.

## APPENDIX A

### D. E. Shaw Investment Management, L.L.C. – Summary of Proxy Voting Policies and Procedures

#### INTRODUCTION

This document summarizes the proxy voting policies and procedures of D. E. Shaw Investment Management, L.L.C. ("DESIM").

#### STATEMENT OF POLICY

When voting proxies for a client account, DESIM's primary objective is to make voting decisions in the best interest of the client. DESIM has discretion to take into account any factors or considerations that it determines to be relevant, including those outlined in Part 2A of Form ADV, applicable advisory agreements, or other governing documents, when making any voting determination regarding the best interests of a client. In fulfilling its obligations to an advisory client, DESIM endeavors to act in a manner that will enhance the economic value of the assets of the client under management subject to any express agreements with the applicable client. DESIM has established written policies and procedures that are designed to ensure that proxies relating to shares owned by a client to which DESIM provides advice are voted in the best interest of such client (the "Proxy Voting Policy"). Among other topics, the Proxy Voting Policy addresses DESIM's handling of material conflicts of interests in proxy voting situations.

#### VOTING OF PROXIES

DESIM has determined that the most efficient and effective method in which to vote proxies is through the engagement of an independent third-party proxy voting service (the "Proxy Voting Service"). DESIM generally votes most shares through and in accordance with the recommendations of the Proxy Voting Service. DESIM believes that the independent Proxy Voting Service's internal policy regarding conflicts of interest, including the use of information barriers, addresses adequately its potential conflicts of interest.

To facilitate voting execution, DESIM utilizes the independent Proxy Voting Service's electronic vote management system to pre-populate and automatically submit votes in accordance with the Proxy Voting Service's recommendations, except in the cases where DESIM determines to deviate from a recommendation of the Proxy Voting Service or where manual voting is required. For the avoidance of doubt, DESIM retains the authority to vote proxies, has not delegated such authority to any other party, and may vote contrary to any recommendation of the Proxy Voting Service if it determines such recommendation may be contrary to the client's best interests. If DESIM believes that the recommendations of the Proxy Voting Service may be contrary to the best interest of a client, DESIM must obtain the approval of the D. E. Shaw group's Chief Compliance Officer and a Co-Chief Investment Officer of DESIM, or their respective designees, before instructing the Proxy Voting Service to vote the applicable proxy.

DESIM may elect not to vote proxies in cases where the cost of doing so, in the opinion of DESIM, would exceed the expected benefits to the client. Moreover, logistical issues may have a detrimental effect on DESIM's ability to vote proxies and thereby cause the cost of voting to exceed the expected benefits to the client. Unless expressly agreed otherwise with the applicable client, DESIM generally believes the costs of voting proxies would exceed the expected benefits, and generally does not vote proxies, in the following circumstances: (a) proxies must be voted in-person; (b) proxies are in jurisdictions that impose restrictions on the sale of the securities in order to vote (e.g., share-blocking jurisdictions); (c) relevant securities are on loan pursuant to a securities lending program; (d) proxies require execution of a power of attorney; (e) relevant securities must be re-registered to the shareholder's name and not held in "street name", and (f) proxies require a certain client status with respect to the relevant resolutions, issuer, or jurisdiction to be voted.

## **RECORDKEEPING**

Under applicable law, DESIM is required to maintain a number of books and records related to its business, including proxy voting records. Accordingly, DESIM maintains, or causes the Proxy Voting Service to maintain, the following documents:

- copies of the Proxy Voting Policy and any amendments thereto;
- copies of proxy statements received regarding client securities;
- records of votes cast on behalf of each client;
- records of each advisory client request for proxy voting information; and
- copies of any written documents prepared by DESIM that were material to a voting decision or that memorialized the basis for such decision.

## **DISCLOSURE TO CLIENTS**

DESIM provides a summary of its proxy policies in Part 2A of Form ADV, which includes information on how a client may obtain a copy of the Proxy Voting Policy. DESIM will also furnish a copy of the Proxy Voting Policy and a summary of applicable proxy votes to any client upon written request.

## **REVIEW OF POLICY AND PROCEDURES**

DESIM reviews annually the Proxy Voting Policy and the Proxy Voting Service.

## **LOS ANGELES CAPITAL MANAGEMENT LLC PROXY POLICY**

### **I. Introduction**

Los Angeles Capital Management LLC (“Los Angeles Capital” or the “Firm”) has adopted and implemented policies and procedures that are reasonably designed to ensure that proxies are voted in the best interest of clients, in accordance with U.S. Securities and Exchange Commission (“SEC”) Rule 206(4)-6 under the Investment Advisers Act of 1940 (the “Advisers Act”) and its obligations under the Employee Retirement Income Security Act of 1974 (“ERISA”). Los Angeles Capital provides investment advisory or sub-advisory services to various types of institutional clients. When clients give Los Angeles Capital the authority to vote proxies held in their client accounts such authority is specified in the advisory contract or other governing agreements.

### **II. Proxy Policy Statement**

Los Angeles Capital has retained Glass, Lewis & Co., LLC (“Glass Lewis”) an unaffiliated third-party, to act as an independent proxy voting agent. Glass Lewis provides proxy analysis, voting recommendations and administration, recordkeeping, and manages other operational and reporting matters of the proxy voting process. If at any time a material conflict arises in connection with the Firm voting proxies for a client account, it would be resolved in the best interest of the client.

When Los Angeles Capital is given proxy voting authority together with a client’s voting policy, the Firm oversees compliance with such policy. When the client elects to use the Firm’s standard proxy guidelines, the Firm will vote in accordance with the guidelines approved by the Firm’s Proxy Committee (“Committee”). The Committee has approved the use of Glass Lewis’ market-based U.S. and [Global guidelines](#), as may be modified from time to time (the “Firm’s Guidelines”). Clients with specific proxy voting goals may direct the Firm to apply a thematic set of proxy guidelines developed by Glass Lewis.

#### **A. Proxy Voting Guidelines**

On an annual basis, the Committee reviews the Firm’s Guidelines. The Committee also selectively reviews a sampling of the voting recommendations and the related proxy materials in determining whether to continue or modify the approved Firm Guidelines.



The Firm ultimately retains the right to cast each vote on a case-by-case basis, taking into consideration the applicable proxy guidelines including any contractual obligations or the specific voting policy of the particular portfolio as well as all relevant facts and circumstances including information that might be gathered from sources beyond Glass Lewis. Management of issuers, as well as other interested parties, will sometimes release supplemental information (after the proxy statement) that relates to a pending proxy vote. Glass Lewis and the Firm will not always be able to consider that additional information depending on when it is released.

In the event there is a disagreement with the Glass Lewis analysis as to a particular vote, the Committee will determine whether it is appropriate to vote contrary to the Glass Lewis analysis *provided* that such decision is consistent with the approved guideline. In the rare circumstance that the Committee believes it is in the best interest of a client to vote contrary to an approved guideline, the Committee will seek client consent prior to placing a vote that is contrary to such approved guideline(s).

Los Angeles Capital recognizes that a client may issue specific directives regarding how particular proxy issues are to be voted for the client's portfolio holdings. The Firm requires that the advisory or sub-advisory contract specify such instructions, including instructions as to how those votes will be managed, particularly where they differ from the Firm's Guidelines.

It is unlikely that serious conflicts of interest will arise in the context of the Firm's proxy voting because the Firm does not engage in other financial businesses such as brokerage or managing public companies, underwriting, or investment banking. Nevertheless, should a conflict of interest arise in connection with proxy voting or Glass Lewis, such conflict will be handled as described below under Section IV B, "Conflicts of Interest." As a matter of policy, the Firm and its employees are required to put the interests of clients ahead of their own.

## B. Limitations

In limited circumstances, the Firm may elect to abstain from voting or may be unable to vote a client's proxy. These circumstances include:

- Where the Firm concludes that the effect on shareholder's economic interests or the value of the portfolio holding is indeterminable or insignificant.
- Where the securities related to the vote participate in a **securities lending program** and are out on loan. In many cases, where a client directs the securities lending, Los Angeles Capital may not be aware when the security is out on loan and thus may not be able to recall the security before the record date, subject to the Special Considerations outlined below.
- Where the related securities are issued in a country that participates in **share blocking** because it is disruptive to the management of the portfolio.
- Where multiple global custodian accounts roll up into one **omnibus sub-custodian account**. In the specific markets where this may occur, the account managed by Los Angeles Capital is not registered individually. Therefore, if ballots are voted differently for the underlying accounts, the omnibus vote is considered split and is rejected.
- Where in the Firm's judgement the **unjustifiable costs**<sup>1</sup> or disadvantages of voting the proxy would exceed the anticipated benefit of voting (e.g., certain non-U.S. securities).
- Where a required **Power of Attorney** is not on file or it is not feasible to get one on file.

## C. Special Considerations

Certain accounts may warrant specialized treatment in voting proxies. Contractual stipulations, individual client direction, and special guideline arrangements will dictate how voting will be done in these cases.

### *Mutual Funds*

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<sup>1</sup>The Department of Labor has indicated that such costs include, but are not limited to, expenditures related to developing proxy resolutions, proxy voting services and the analysis of the likely net effect of a particular issue on the economic value of the plan's investment. Fiduciaries must take into consideration whether the exercise of its rights to vote a proxy is expected to have an effect on the economic value of the plan's investment that will outweigh the costs of exercising such rights. With respect to proxies for shares of foreign corporations, a fiduciary, in deciding whether to purchase shares of a foreign corporation, should consider whether any additional difficulty and expense in voting such shares is reflected in their market price.

Where the Firm votes proxies for a mutual fund that it sub-advises, unless otherwise directed and agreed with such fund and its adviser, the proxies typically will be voted in accordance with the Firm's proxy guidelines. Proxies of a mutual fund's portfolio companies may be voted in accordance with resolutions or other instructions from an authorized person of the fund.

#### *ERISA Accounts*

The Department of Labor ("DOL") rules emphasize that a fiduciary's duties extend to management of shareholder rights including with respect to proxy voting. Responsibilities for voting ERISA accounts include: the duty of loyalty, prudence, compliance with the plan, as well as a duty to avoid prohibited transactions. The DOL rules require voting with a focus on relevant risk-return factors and not voting in a manner that sacrifices investment returns or takes on risks that promote benefits or goals unrelated to the interests of participants and beneficiaries. Where the Firm has authority to vote proxies for an ERISA account, the Firm employs the Firm's Guidelines unless otherwise specifically directed by the ERISA plan fiduciary. Where the Firm has authority to vote proxies for a commingled fund that is an ERISA plan asset fund, the Firm employs the Firm's Guidelines.

#### *Securities Lending Program*

Certain situations where Los Angeles Capital may recall securities on loan to vote proxies, if operationally feasible, include: (i) where Los Angeles Capital deems a holding materially significant, (ii) where Los Angeles Capital is directing the securities lending, or (iii) where a client has made arrangements with its custodian to permit standing instructions for the recall of securities out on loan and Los Angeles Capital has agreed to implement the standing instructions.

### **III. Responsibility and Oversight**

The Committee was established to provide oversight to the proxy voting process and is responsible for developing, implementing, and updating the Firm's proxy policy, reviewing approving, and/or formulating the Firm's Guidelines, selecting and overseeing the third-party proxy vendor, identifying any conflicts of interest, determining the votes for issues it elects to vote independently from, or that cannot be voted by, Glass Lewis, monitoring legislative and corporate governance developments surrounding proxy issues, and meeting to discuss any material issues regarding the proxy voting process. The Committee meets annually and as necessary to fulfill its obligations.

As part of the Committee's ongoing oversight of its third-party proxy vendor, the Committee considers (i) the adequacy and quality of the proxy vendor's staffing and personnel; (ii) the presence of conflicts and processes to address those conflicts; (iii) the robustness of the proxy vendor's policies and procedures for ensuring that its recommendations are based on current and accurate information; and (iv) any other appropriate considerations as to the nature and quality of the proxy vendor's services. In addition, Compliance conducts periodic reviews of ballots voted by the proxy vendor to ensure they are in line with proxy voting procedures.

In cases where the Committee votes a proxy ballot it may conduct research internally and/or use the resources of an independent research consultant or use information from any of the following sources: legislative materials, studies of corporate governance and other proxy voting issues, reports by issuers' management on pending proxy votes, and/or published analyses of shareholder and management proposals. In such voting circumstances, two votes from voting members of the Committee or one voting member of the Committee and an internal legal counsel are required.

Los Angeles Capital's Operations Department handles the day-to-day administration of the proxy voting process.

### **IV. Proxy Voting Procedures**

Glass Lewis provides for the timely execution of specified proxy votes on the Firm's behalf, which includes complete account set-up, vote execution, reporting, recordkeeping, and compliance with ERISA.

Los Angeles Capital's responsibility for voting proxies is generally determined by the obligations set forth under each client's Investment Management Agreement, Limited Partnership Agreement, Prospectus, Trust Agreement or other legal documentation governing the account. Voting ERISA client proxies is a fiduciary act of plan asset management that must be performed by the adviser or delegated to a sub-advisor unless the voting right is retained by a named fiduciary of the plan. If an advisory or sub-advisory contract or similar document states that Los Angeles Capital does not have the authority to vote client proxies, then voting is the responsibility of some other named fiduciary.

While Los Angeles Capital will accept direction from clients on specific proxy issues for their account, the Firm reserves the right to maintain its standard position on all other client accounts for which the Firm has proxy voting authority.

## **A. Materiality**

The Committee has designated certain materiality thresholds for situations in which the Committee may vote independently from Glass Lewis or may take separate actions in regard to securities lending limitations. Materiality thresholds are monitored daily and are escalated to the Committee for review.

## **B. Conflicts of Interest**

Los Angeles Capital attempts to minimize the risks of conflicts and reviews the Conflict of Interest Statement prepared by Glass Lewis on an annual basis.

If Glass Lewis identifies a potential conflict of interest between it and a publicly held company, it will disclose the relationship on the relevant proxy paper research report. In these situations, the Committee will review the proxy paper research report and vote the proxy.

If an unforeseen conflict requires specialized treatment, alternate measures may be taken, up to and including having Glass Lewis refrain from writing a proxy paper research report and abstaining from making a voting recommendation on the company. In this scenario Glass Lewis would procure a substitute research report from an alternative qualified provider, and the Committee may be required to research and vote the proxy.

If, during this process, the Committee identifies a potential material conflict of interest between Los Angeles Capital or an affiliated person of the Firm and the issuer whose ballot is being voted, the client will be notified. If no directive is issued by the client, the Committee will vote in such a way that, in the Committee's opinion, fairly addresses the conflict in the best interest of the client.

## **C. Disclosure**

Los Angeles Capital will provide all clients with a copy of the Firm's current proxy policies and procedures upon request. In addition, clients may request, at any time, a copy of the Firm's voting records for their respective account(s) by making a formal request to Los Angeles Capital. Los Angeles Capital will make this information available to a client upon its request within a reasonable time. For further information, please contact a member of Operations at [operations@lacapm.com](mailto:operations@lacapm.com).

Los Angeles Capital generally will not disclose how it intends to vote on behalf of a client account except as required by applicable law, but may disclose such information to a client regarding their portfolio who itself may decide or may be required to make public such information. Los Angeles Capital will not disclose past votes or share amounts voted except: (i) for a valid business purpose as determined in the discretion of the Chief Compliance Officer or Chief Legal Officer, (ii) to the respective client, or (iii) as required on Form N-PX related to Say-on-Pay votes, (iv) as otherwise required by law.

## **D. Recordkeeping**

All proxy records pursuant to Section 204-2 of the Advisers Act are retained by either Glass Lewis or Los Angeles Capital. Glass Lewis retains (1) records of proxy statements received regarding client securities, and (2) records of each vote cast. Los Angeles Capital retains (1) copies of its proxy policies, procedures, and Firm Guidelines; (2) copies of any document created by Los Angeles Capital that was material to making a decision how to vote proxies on behalf of a client or that memorializes the basis for that decision; (3) each written client request for information on how the adviser voted proxies on behalf of the client; (4) a copy of any written response by Los Angeles Capital to any (written or oral) client request for information on how the adviser voted proxies on behalf of the requesting client; and (5) regulatory filings related to proxy voting.

### *ERISA Accounts*

Los Angeles Capital maintains access to proxy voting records (both procedures and actions taken in individual situations) to enable the named fiduciary to determine whether Los Angeles Capital is fulfilling its obligations. Such records may be maintained via Glass Lewis' electronic system. Retention may include: (1) issuer name and meeting; (2) issues voted on and record of the vote; (3) number of shares eligible to be voted on the record date; (4) number of shares voted; and (5) where appropriate, cost-benefit analyses.

### *Duration*

Proxy voting books and records will be maintained in an easily accessible place for at least five years from the end of the fiscal year during which the last entry was made on such records. For the first two years, the records are fully accessible in Los Angeles Capital's office and electronically.

## **Wellington Management Global Proxy Policy and Procedures**

Wellington Management has adopted and implemented policies and procedures that it believes are reasonably designed to ensure that proxies are voted in the best interests of clients for whom it exercises proxy-voting discretion.

The purpose of this document is to outline Wellington Management's approach to executing proxy voting. Wellington Management's Proxy Voting Guidelines (the "Guidelines"), which are contained in a separate document, set forth broad guidelines and positions on common proxy issues that Wellington Management uses in voting for proxies. The Guidelines set out our general expectations on how we vote rather than rigid rules that we apply without consideration of the particular facts and circumstances.

### **Statement of Policy**

Wellington Management:

- 1) Votes client proxies for which clients have affirmatively delegated proxy voting authority, in writing, unless we have arranged in advance with a particular client to limit the circumstances in which it would exercise voting authority, or we determine that it is in the best interest of one or more clients to refrain from voting a given proxy.
- 2) Seeks to vote proxies in the best financial interests of the client for which we are voting.
- 3) Identifies and resolves all material proxy-related conflicts of interest between the firm and our clients in the best interests of the client.

### **Responsibility and Oversight**

The Proxy Voting Team monitors regulatory requirements with respect to proxy voting and works with the firm's Legal and Compliance Group and the Investment Stewardship Committee to develop practices that implement those requirements. The Proxy Voting Team also acts as a resource for portfolio managers and investment research analysts on proxy matters as needed. Day-to-day administration of the proxy voting process is the responsibility of the Proxy Voting Team. The Investment Stewardship Committee a senior, cross-functional group of experienced professionals, is responsible for oversight of the implementation of the Global Proxy Policy and Procedures, review and approval of the Guidelines, and identification and resolution of conflicts of interest. The Investment Stewardship Committee reviews the Guidelines as well as the Global Proxy Policy and Procedures annually.

### **Procedures**

#### **Use of Third-Party Voting Agent**

Wellington Management uses the services of a third-party voting agent for research and to manage the administrative aspects of proxy voting. We view third-party research as an input to our process. Wellington Management complements the research provided by its primary voting agent with research from other firms.

Our primary voting agent processes proxies for client accounts and maintains records of proxies voted. For certain routine issues, as detailed below, votes may be instructed according to standing instructions given to our primary voting agent, which are based on the Guidelines.

We manually review instances where our primary voting agent discloses a material conflict of interest of its own, potentially impacting its research outputs. We perform oversight of our primary voting agent, which involves regular service calls and an annual due diligence exercise, as well as regular touchpoints in the normal course of business.

#### **Receipt of Proxy**

If a client requests that Wellington Management votes proxies on its behalf, the client must instruct its custodian bank to deliver all relevant voting materials to Wellington Management or its designated voting agent in a timely manner.

## **Reconciliation**

Proxies for public equity securities received by electronic means are matched to the securities eligible to be voted, and a reminder is sent to custodians/trustees that have not forwarded the proxies due. This reconciliation is performed at the ballot level. Although proxies received for private equity securities, as well as those received in non-electronic format for any securities, are voted as received, Wellington Management is not able to reconcile these ballots and does not notify custodians of non-receipt; Wellington Management is only able to reconcile ballots where clients have consented to providing holdings information with its provider for this purpose.

## **Proxy Voting Process**

Our approach to voting is investment-led and serves as an influential component of our engagement and escalation strategy. The Investment Stewardship Committee, a cross-functional group of experienced professionals, oversees Wellington Management's activities with regards to proxy voting practices.

Routine issues that can be addressed by the proxy voting guidance below are voted by means of standing instructions communicated to our primary voting agent. Some votes warrant analysis of specific facts and circumstances and therefore are reviewed individually. We examine such vote sources including internal research notes, third-party voting research and company engagement. While manual votes are often resolved by investment research teams, each portfolio manager is empowered to make a final decision for their relevant client portfolio(s), absent a material conflict of interest. Proactive portfolio manager input is sought under certain circumstances, which may include consideration of position size and proposal subject matter and nature. Where portfolio manager input is proactively sought, deliberation across the firm may occur. This collaboration does not prioritize consensus across the firm above all other interests but rather seeks to inform portfolio managers' decisions by allowing them to consider multiple perspectives. Portfolio managers may occasionally arrive at different voting conclusions for their clients, resulting in different decisions for the same vote. Voting procedures and the deliberation that occurs before a vote decision are aligned with our role as active owners and fiduciaries for our clients.

## **Material Conflict of Interest Identification and Resolution Processes**

Further detail on our management of conflicts of interest can be found in our Stewardship Conflicts of Interest Policy, available on our website.

## **Other Considerations**

In certain instances, Wellington Management may be unable to vote or may determine not to vote a proxy on behalf of one or more clients. While not exhaustive, the following are potential instances in which a proxy vote might not be entered.

## **Securities Lending**

Clients may elect to participate in securities lending. Such lending may impact their ability to have their shares voted. Under certain circumstances, and where practical considerations allow, Wellington Management may determine that the anticipated value of voting could outweigh the benefit to the client resulting from use of securities for lending and recommend that a client attempt to have its custodian recall the security to permit voting of related proxies. We do not borrow shares for the sole purpose of exercising voting rights.

## **Share Blocking and Re-Registration**

Certain countries impose trading restrictions or requirements regarding re-registration of securities held in omnibus accounts in order for shareholders to vote a proxy. The potential impact of such requirements is evaluated when determining whether to vote such proxies.

## **Lack of Adequate Information, Untimely Receipt of Proxy Materials, or Excessive Costs**

Wellington Management may abstain from voting a proxy when the proxy statement or other available information is inadequate to allow for an informed vote, the proxy materials are not delivered in a timely fashion; or, in Wellington Management's judgment, the costs of voting exceed the expected benefits to clients (included but not limited to instances such as when powers of attorney or consularization or the disclosure of client confidential information are required).

**Additional Information**

Wellington Management maintains records related to proxies pursuant to Rule 204-2 of the Investment Advisers Act of 1940 (the “Advisers Act”), the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), and other applicable laws. In addition, Wellington Management discloses voting decisions through its website, including the rationale for votes against management.

Wellington Management provides clients with a copy of its Global Proxy Policy and Procedures, as well as the Voting Guidelines, upon written request. In addition, Wellington Management will provide specific client information relating to proxy voting to a client upon written request.

