

# TOUCHSTONE VARIABLE SERIES TRUST

## Touchstone Common Stock Fund

Supplement dated October 31, 2024  
to the Trust's Prospectus, Summary Prospectus  
and Statement of Additional Information ("SAIs") dated  
April 29, 2024  
as may be amended or supplemented from time to time

### Notice of Change in Portfolio Management Team

Effective October 31, 2024, Sunit Gogia joined the portfolio management team of the Touchstone Common Stock Fund (the "Fund"), which is sub-advised by Fort Washington Investment Advisors, Inc. James E. Wilhelm continues to serve as portfolio manager to the Fund.

#### Prospectus & Summary Prospectus

Accordingly, in the section entitled "The Fund's Management" in the Fund's Summary Prospectus and in the fund summary section of the Fund's Prospectus, the following information is added to the table, which identifies the Fund's portfolio managers:

<b>Sub-Adviser</b>	<b>Portfolio Managers</b>	<b>Investment Experience with the Fund</b>	<b>Primary Title with Sub-Adviser</b>
Fort Washington Investment Advisors, Inc.	Sunit Gogia	Since 2024	Vice President, Portfolio Manager and Director of Equity Research

In the section of the Prospectus entitled "The Fund's Management", under the sub-heading "Sub-Advisors and Portfolio Managers," the following information is added under the Fund:

**Sunit Gogia**, Vice President, Portfolio Manager and Director of Equity Research joined Fort Washington in 2012. He has investment experience dating back to 2003. He began as a Senior Equity Analyst with Fort Washington in 2012 covering the technology and telecom sectors. He was named Associate Portfolio Manager and Director of Equity Research in 2017. Prior to joining Fort Washington, Sunit was a Senior Equity Analyst with Morningstar, Inc. following the enterprise software industry. Prior to that he was a Software Developer and Program Manager at Microsoft.

#### Statement of Additional Information ("SAI")

In the section of the Fund’s SAI entitled “The Sub-Advisors and Portfolio Managers,” the following information as of December 31, 2023 is added to the Portfolio Manager/Types of Accounts table for the Fund to reflect the addition of Mr. Gogia:

<b>Portfolio Manager/ Types of Accounts</b>	<b>Total Number of Other Accounts Managed</b>	<b>Total Other Assets</b>	<b>Number of Other Accounts Managed subject to a Performance Based Advisory Fee</b>	<b>Total Other Assets Managed subject to a Performance Based Advisory Fee (million)</b>
<b>Sunit Gogia</b>				
Registered Investment Companies	2	\$4,309,774,817	0	\$0
Other Pooled Investment Vehicles	1	\$31,805,331	0	\$0
Other Accounts	21	\$1,567,949,453	0	\$0

The following table indicates the dollar range of the Fund beneficially owned by the Fund’s portfolio manager as of December 31, 2023:

<b>Dollar Range of Fund Shares Owned</b>	
<b>Portfolio Manager</b>	<b>Common Stock Fund</b>
Sunit Gogia	None

\* \* \* \* \*

Please contact your financial adviser or Touchstone at 800.543.0407 if you have any questions.

P.O. Box 534467 Pittsburgh, PA 15253-4467  
Ph: 800.543.0407 TouchstoneInvestments.com

**Touchstone Mutual Funds are distributed by Touchstone Securities, Inc.\***

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**Please retain this Supplement for future reference.**

TSF-4511-2410



## Touchstone Common Stock Fund

April 29, 2024

Before you invest, you may want to review the Fund's prospectus, which contains information about the Fund and its risks. The Fund's prospectus and Statement of Additional Information, both dated April 29, 2024, as amended from time to time, are incorporated by reference into this summary prospectus. For free paper or electronic copies of the Fund's prospectus and other information about the Fund, go to [TouchstoneInvestments.com/Resources](https://TouchstoneInvestments.com/Resources), call (800) 543-0407, or ask the insurance company that offers your variable annuity or variable life insurance contract or your financial intermediary.

**TOUCHSTONE COMMON STOCK FUND SUMMARY****The Fund's Investment Goal**

The Touchstone Common Stock Fund (the "Fund") seeks to provide investors with capital appreciation.

**The Fund's Fees and Expenses**

This table describes the fees and expenses that you may pay if you buy, hold and sell shares of the Fund, but does not reflect the effect of any fees or other expenses of any variable annuity or variable life insurance product. If variable annuity or variable life contract fees were included, expenses would be higher:

	Class I	Class SC
<b>Annual Fund Operating Expenses (expenses that you pay each year as a percentage of the value of your investment)</b>		
Management Fees	0.50%	0.50%
Other Expenses		
Shareholder Service Fees	0.00%	0.19%
Other Operating Expenses	0.29%	0.26%
Total Other Expenses	0.29%	0.45%
Total Annual Fund Operating Expenses	0.79%	0.95%
Fee Waiver and/or Expense Reimbursement <sup>(1)</sup>	(0.06)%	0.00%
Total Annual Fund Operating Expenses After Fee Waiver and/or Expense Reimbursement <sup>(1)</sup>	0.73%	0.95%

<sup>(1)</sup> *Touchstone Advisors, Inc. (the "Adviser" or "Touchstone Advisors") and Touchstone Variable Series Trust (the "Trust") have entered into a contractual expense limitation agreement whereby Touchstone Advisors will waive a portion of its fees or reimburse certain Fund expenses (excluding dividend and interest expenses relating to short sales; interest; taxes; brokerage commissions and other transaction costs; portfolio transaction and investment related expenses, including expenses associated with the Fund's liquidity providers; other expenditures which are capitalized in accordance with U.S. generally accepted accounting principles; the cost of "Acquired Fund Fees and Expenses", if any; and other extraordinary expenses not incurred in the ordinary course of business) in order to limit annual Fund operating expenses to 0.73% and 1.06% of average daily net assets for Class I and Class SC shares, respectively. This contractual expense limitation is effective through April 29, 2025, but can be terminated by a vote of the Board of Trustees of the Trust (the "Board") if it deems the termination to be beneficial to the Fund's shareholders. The terms of the contractual expense limitation agreement provide that Touchstone Advisors is entitled to recoup, subject to approval by the Board, such amounts waived or reimbursed for a period of up to three years from the date on which the Adviser reduced its compensation or assumed expenses for the Fund. The Fund will make repayments to the Adviser only if such repayment does not cause the annual Fund operating expenses (after the repayment is taken into account) to exceed both (1) the expense cap in place when such amounts were waived or reimbursed and (2) the Fund's current expense limitation.*

**Example.** This example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds. The example does not include expenses incurred from investing through a variable annuity or a variable life insurance product. If the example included these expenses, the figures shown would be higher. The example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The example also assumes that your investment has a 5% return each year, that the Fund's operating expenses remain the same and that all fee waivers or expense limits for the Fund will expire after one year. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

	<u>Class I</u>	<u>Class SC</u>
1 Year	\$ 75	\$ 97
3 Years	\$246	\$ 303
5 Years	\$433	\$ 525
10 Years	\$972	\$1,166

**Portfolio Turnover.** The Fund pays transaction costs, such as brokerage commissions, when it buys and sells securities (or "turns over" its portfolio). A higher portfolio turnover rate may indicate higher transaction costs. These costs, which are not reflected in total annual Fund operating expenses or in the example, affect the Fund's performance. During the most recent fiscal year, the Fund's portfolio turnover rate was 4% of the average value of the Fund's portfolio.

#### The Fund's Principal Investment Strategies

The Fund invests, under normal market conditions, at least 80% of its assets in large capitalization equity securities. The Fund invests primarily in issuers having a market capitalization, at the time of purchase, above \$5 billion. The Fund's 80% policy is a non-fundamental investment policy that can be changed by the Fund upon 60 days' prior written notice to shareholders. Equity securities include common stock and preferred stock. These securities may be listed on an exchange or traded over-the-counter.

In selecting securities for the Fund, the Fund's sub-adviser, Fort Washington Investment Advisors, Inc. ("Fort Washington"), seeks to invest in companies that:

- Are trading below its estimate of the companies' intrinsic value; and
- Have a sustainable competitive advantage or a high barrier to entry in place. The barrier(s) to entry can be created through a cost advantage, economies of scale, high customer loyalty, or a government barrier (e.g., license or subsidy). Fort Washington believes that the strongest barrier to entry is the combination of economies of scale and higher customer loyalty.

The Fund will generally hold 25 to 45 companies, with residual cash and equivalents expected to represent less than 10% of the Fund's net assets. The Fund may, at times, hold fewer securities and a higher percentage of cash and equivalents when, among other reasons, Fort Washington cannot find a sufficient number of securities that meets its purchase requirements. Although the Fund may invest in any economic sector, at times it may emphasize one or more particular sectors.

The Fund may invest up to 35% of its assets in securities of foreign issuers through the use of ordinary shares or depositary receipts such as American Depositary Receipts ("ADRs"). The Fund may also invest in securities of emerging market countries. Emerging market countries are generally countries that are included in the Morgan Stanley Capital International ("MSCI") Emerging Markets Index.

The Fund will generally sell a security if it reaches Fort Washington's estimate of fair value, if a more attractive investment opportunity is available, or if a structural change has taken place and Fort Washington cannot reliably estimate the impact of the change on the business fundamentals.

The Fund is non-diversified and, therefore may, from time to time, have significant exposure to a limited number of issuers.

### The Fund's Principal Risks

The Fund's share price will fluctuate. You could lose money on your investment in the Fund and the Fund could also return less than other investments. Investments in the Fund are not bank guaranteed, are not deposits, and are not insured by the Federal Deposit Insurance Corporation or any other federal government agency. As with any mutual fund, there is no guarantee that the Fund will achieve its investment goal. You can find more information about the Fund's investments and risks under the "Principal Investment Strategies and Risks" section of the Fund's prospectus. The Fund is subject to the principal risks summarized below.

**Equity Securities Risk:** The Fund is subject to the risk that stock prices will fall over short or extended periods of time. Individual companies may report poor results or be negatively affected by industry and/or economic trends and developments, or as a result of irregular and/or unexpected trading activity among retail investors. The prices of securities issued by these companies may decline in response to such developments, which could result in a decline in the value of the Fund's shares.

- **Large-Cap Risk:** Large-cap companies may be unable to respond quickly to new competitive challenges, such as changes in technology and consumer tastes, and also may not be able to attain the high growth rate of successful smaller companies, especially during extended periods of economic expansion.
- **Mid-Cap Risk:** Stocks of mid-sized companies may be subject to more abrupt or erratic market movements than stocks of larger, more established companies. Mid-sized companies may have limited product lines or financial resources, and may be dependent upon a particular niche of the market.
- **Preferred Stock Risk:** 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. If interest rates rise, the fixed dividend on preferred stocks may be less attractive, causing the price of preferred stocks to decline.

**Non-Diversification Risk:** The Fund is non-diversified, which means that it may invest a greater percentage of its assets than a diversified mutual fund in the securities of a limited number of issuers. The use of a non-diversified investment strategy may increase the volatility of the Fund's investment performance, as the Fund may be more susceptible to risks associated with a single economic, political or regulatory event.

**Economic and Market Events Risk:** Events in the U.S. and global financial markets, including actions taken by the U.S. Federal Reserve or foreign central banks to stimulate or stabilize economic growth, may at times, and for varying periods of time, result in unusually high market volatility, which could negatively impact the Fund's performance and cause the Fund to experience illiquidity, shareholder redemptions, or other potentially adverse effects. Reduced liquidity in credit and fixed-income markets could negatively affect issuers worldwide. Financial institutions could suffer losses as interest rates rise or economic conditions deteriorate. In addition, the Fund's service providers are susceptible to operational and information or cyber security risks that could result in losses to a Fund and its shareholders.

**Management Risk:** In managing the Fund's portfolio, the Adviser engages one or more sub-advisers to make investment decisions for a portion of or the entire portfolio. There is a risk that the Adviser may be unable to identify and retain sub-advisers who achieve superior investment returns relative to other similar sub-advisers.

**Foreign Securities Risk:** Investing in foreign securities poses additional risks since political and economic events unique in a country or region will affect those markets and their issuers, while such events may not necessarily affect the U.S. economy or issuers located in the United States. In addition, investments in foreign securities are generally denominated in foreign currency. As a result, changes in the value of those currencies compared to the U.S. dollar may affect (positively or negatively) the value of the Fund's investments. There are also risks associated with foreign accounting standards, government regulation, market information, and clearance and settlement procedures. Foreign markets may be less liquid and more volatile than U.S. markets and offer less protection to investors. To the extent a Fund focuses its investments in a single country or only a few countries in a particular geographic region, economic, political, regulatory or other conditions affecting such country or region may have a greater impact on Fund performance relative to a more geographically diversified fund.

- **Depository Receipts Risk:** Foreign receipts, which include American Depositary Receipts, Global Depositary Receipts, and European Depositary Receipts, are securities that evidence ownership interests in a security or a pool of securities issued by a foreign issuer. The risks of depository receipts include many risks associated with investing directly in foreign securities.
- **Emerging Markets Risk:** Emerging markets may be more likely to experience political turmoil or rapid changes in market or economic conditions than more developed countries. In addition, the financial stability of issuers (including governments) in emerging market countries may be more precarious than that of issuers in other countries.

**Sector and Industry Focus Risk:** The Fund may invest a high percentage of its assets in specific sectors and/or industries of the market in order to achieve a potentially greater investment return. As a result, the Fund may be more susceptible to economic, political, and regulatory developments in a particular sector or industry of the market, positive or negative, than a fund that does not invest a high percentage of its assets in specific sectors or industries.

**Cybersecurity Risk:** Cyber security breaches are either intentional or unintentional events that allow an unauthorized party to gain access to Fund assets, customer data, or proprietary information, or cause a Fund or Fund service provider to suffer data corruption or lose operational functionality. A cyber security breach could result in the loss or theft of customer data or funds, loss or theft of proprietary information or corporate data, physical damage to a computer or network system, or costs associated with system repairs, any of which could have a substantial impact on the Fund. Such incidents could affect issuers in which a Fund invests, thereby causing the Fund's investments to lose value. The Fund has established risk management systems reasonably designed to seek to reduce the risks associated with cyber-events. However, there is no guarantee that the Fund will be able to prevent or mitigate the impact of any or all cyber-events.

### The Fund's Performance

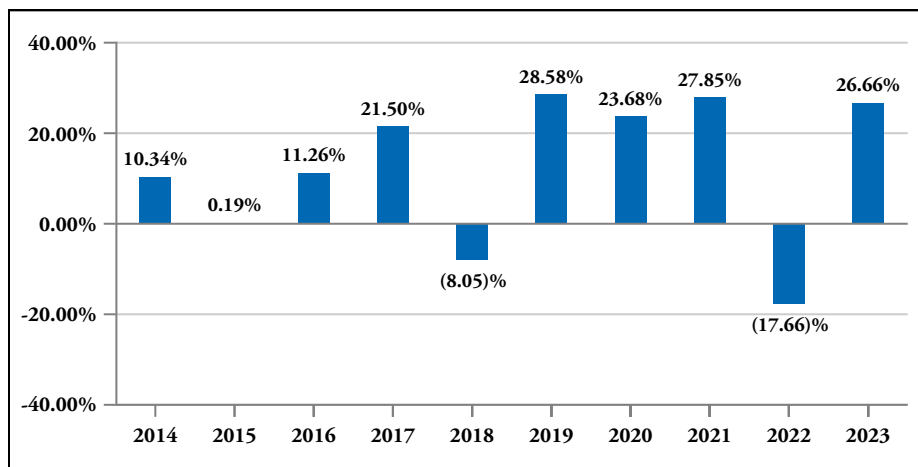
On October 27, 2017, the Sentinel Variable Products Common Stock Fund, previously a series of Sentinel Variable Products Trust (the "Predecessor Fund"), was reorganized into Class I shares of the Fund. As a result of the reorganization, the performance history of the Predecessor Fund was assumed by the Fund. Performance information prior to October 27, 2017 is that of the Predecessor Fund.

The bar chart and the performance table below illustrate some indication of the risks and volatility of an investment in the Fund by showing changes in the Fund's Class I share performance from calendar year to calendar year and by showing how the Fund's Class I share average annual total returns for one year, five years, and ten years compare with the S&P 500<sup>®</sup> Index.

The performance information shown does not reflect fees that are paid by the separate accounts through which shares of the Fund are sold. Inclusion of those fees would reduce the total return figures for all periods. Past performance does not necessarily indicate how the Fund will perform in the future.

The Fund returns shown in the table below are before taxes. After-tax returns are not relevant to investors who hold their Fund shares through tax-deferred arrangements. Please see the "Distribution and Taxes" section of the Fund's prospectus for more information.

### Touchstone Common Stock Fund — Class I Shares Total Return as of December 31



Best Quarter:	2nd Quarter 2020	20.13%
Worst Quarter:	1st Quarter 2020	(19.11)%
Year-To-Date:	3/31/2024	8.66%

Class SC shares of the Fund commenced operations on July 10, 2019. Performance shown prior to the commencement date of Class SC shares is that of Class I shares of the Fund or the Predecessor Fund, as applicable. Class SC shares would have had substantially similar annual returns to Class I shares because the shares are invested in the same portfolio of securities and the annual returns differ only to the extent that the share classes do not have the same expenses.

### Average Annual Total Returns For the periods ended December 31, 2023

	1 Year	5 Years	10 Years
Touchstone Common Stock Fund - Class I	26.66%	16.22%	11.29%
Touchstone Common Stock Fund - Class SC	26.35%	15.98%	10.99%
S&P 500® Index (reflects no deduction for fees, expenses or taxes)	26.29%	15.69%	12.03%

**The Fund's Management****Investment Adviser**

Touchstone Advisors, Inc. serves as the Fund's investment adviser.

<b>Sub-Adviser</b>	<b>Portfolio Manager</b>	<b>Investment Experience with the Fund</b>	<b>Primary Title with Sub-Adviser</b>
Fort Washington Investment Advisors, Inc.	James E. Wilhelm, Jr.	Since inception in October 2017	Managing Director and Senior Portfolio Manager

**Buying and Selling Fund Shares**

You cannot buy or sell shares of the Fund directly. You can invest indirectly in the Fund through your purchase of a variable annuity contract or variable life policy. Please see the variable contract prospectus for additional investment information.

**Tax Information**

The dividends and distributions paid by the Fund will consist of ordinary income, capital gains or some combination of both. Because shares of the Fund must be purchased through separate accounts used to fund variable life and variable annuity insurance contracts, such dividends and distributions will be exempt from current taxation to you if you leave such amounts to accumulate within a separate account. Please see the variable contract prospectus for additional tax information.

**Payments to Sponsoring Insurance Companies and Other Financial Intermediaries**

The Fund or its distributor (and related companies) may pay broker/dealers or other financial intermediaries (such as insurance companies or their related companies) for the sale and retention of variable contracts that offer Fund shares and/or for other services. These payments may create a conflict of interest for a financial intermediary, or may be a factor in the insurance company's decision to include the Fund as an investment option in its variable contract. For more information, ask your financial adviser, visit your financial intermediary's website, or consult the variable contract prospectus or the Fund's prospectus.



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