

January 31, 2020, as amended through March 18, 2020

SUMMARY PROSPECTUS

SIMT Large Cap Index Fund (SLGFX) Class F

Before you invest, you may want to review the Fund's prospectus, which contains information about the Fund and its risks. You can find the Fund's prospectus and other information about the Fund, including the Fund's Statement of Additional Information, online at seic.com/fundprospectuses. You can also get this information at no cost by dialing 1-800-DIAL-SEI. The Fund's prospectus and Statement of Additional Information, dated January 31, 2020, as may be supplemented from time to time, are incorporated by reference into this Summary Prospectus.

Beginning on January 1, 2021, as permitted by regulations adopted by the Securities and Exchange Commission, paper copies of the Fund's shareholder reports will no longer be sent by mail, unless you specifically request paper copies of the reports from the Fund or from your financial intermediary, such as a broker-dealer or bank.

Instead, the reports will be made available on a website, and you will be notified by mail each time a report is posted and provided with a website link to access the report.

If you already elected to receive shareholder reports electronically, you will not be affected by this change and you need not take any action. You may elect to receive shareholder reports and other communications from the Fund electronically by contacting your financial intermediary.

You may elect to receive all future reports in paper free of charge. If you invest through a financial intermediary, you can follow the instructions included with this disclosure or contact your financial intermediary to inform it that you wish to continue receiving paper copies of your shareholder reports. If you invest directly with the Fund, you can inform the Fund that you wish to continue receiving paper copies of your shareholder reports by calling 1-800-DIAL-SEI. Your election to receive reports in paper will apply to all funds held with the SEI Funds or your financial intermediary.

Investment Goal

Seeks to track the performance of a benchmark index that measures the investment return of large-capitalization stocks.

Fees and Expenses

This table describes the fees and expenses that you may pay if you buy and hold Fund shares.

ANNUAL FUND OPERATING EXPENSES

| (expenses that you pay each year as a percentage of the value of your investment) | Class F Shares |
|---|----------------|
| Management Fees | 0.05% |
| Distribution (12b-1) Fees | None |
| Other Expenses | 0.60% |
| Total Annual Fund Operating Expenses | 0.65% |

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 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 and that the Fund's operating expenses remain the same. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

| | 1 Year | 3 Years | 5 Years | 10 Years |
|---------------------------------------|--------|---------|---------|----------|
| Large Cap Index Fund — Class F Shares | \$66 | \$208 | \$362 | \$810 |

PORTFOLIO TURNOVER

The Fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs and may result in higher taxes when Fund shares are held in a taxable account. These costs, which are not reflected in 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 6% of the average value of its portfolio.

Principal Investment Strategies

The Fund is managed using a passive investment approach designed to track, before fees and expenses, the performance of the Russell 1000 Index (the Index). Under normal circumstances, the Fund will invest substantially all of its assets (at least 80% of its net assets, plus the amount of any borrowings for investment purposes) in securities (mostly common stocks) of companies that are included in the Index. The Index measures the performance of the large-cap segment of the U.S. equity universe and includes approximately 1000 of the largest securities based on their market capitalization. As of December 31, 2019, the market capitalization of the companies included in the Index ranged from \$824 million to \$1.3 trillion. The market capitalization range and the composition of the Index are subject to change.

The Fund's sub-adviser (the Sub-Adviser) selects the Fund's securities under the general supervision of SEI Investments Management Corporation (SIMC or the Adviser). The Sub-Adviser's passive investment strategy seeks to track, before fees and expenses, the return of the index, and therefore differs from an “active” investment strategy where an investment manager buys and sells securities based on its own economic, market or financial analyses. The Sub-Adviser generally will attempt to invest in securities composing the Index in approximately the same proportions as they are represented in the Index (*i.e.*, among other reasons, the Fund could experience high volumes of cash flows or a particular security could be difficult to obtain). In some cases, it may not be possible or practicable to purchase all of the securities composing the Index or to hold them in the same weightings as they are represented in the Index. In those circumstances, the Sub-Adviser may purchase a sampling of stocks in the Index in proportions expected to replicate generally the performance of the Index as a whole and may also use futures contracts to obtain exposure to the equity markets or to a particular security.

The Sub-Adviser may sell securities that are represented in the Index or purchase securities that are not represented in the Index, prior to or after their removal or addition to the Index.

The Fund's investment performance will depend on the Fund's tracking of the Index and the performance of the Index. The Fund's ability to replicate the performance of the Index will depend to some extent on the size and timing of cash flows into and out of the Fund, as well as on the level of the Fund's expenses. Due to these differences, the Fund's performance generally will not be identical to that of the Index.

Principal Risks

Market Risk — The risk that the market value of a security may move up and down, sometimes rapidly and unpredictably. Market risk may affect a single issuer, an industry, a sector or the equity or bond market as a whole.

Large Capitalization Risk — The risk that larger, more established companies may be unable to respond quickly to new competitive challenges such as changes in technology and consumer tastes. Larger companies also may not be able to attain the high growth rates of successful smaller companies.

Investment Style Risk — The risk that its investment approach, which attempts to replicate the performance of the Russell 1000 Index, may underperform other segments of the equity markets or the equity markets as a whole. The Fund is also subject to the risk that large capitalization securities may underperform other segments of the equity markets or the equity markets as a whole.

Tracking Error Risk — The risk that the Fund's performance may vary substantially from the performance of the benchmark index it tracks as a result of cash flows, Fund expenses, imperfect correlation between the Fund's investments and the index's components and other factors.

Derivatives Risk — The Fund's use of futures contracts is subject to leverage risk, correlation risk, liquidity risk and market risk. Market risk is described above, and leverage risk and liquidity risk are described below. Correlation risk is the risk that changes in the value of the derivative may not correlate perfectly with the underlying asset, rate or index. Each of these risks could cause the Fund to lose more than the principal amount invested in a derivative instrument. The Fund's use of derivatives may also increase the amount of taxes payable by shareholders. The Fund's use of derivatives may also increase the amount of taxes payable by shareholders. Both U.S. and non-U.S. regulators are in the process of adopting and implementing regulations governing derivatives markets, the ultimate impact of which remains unclear.

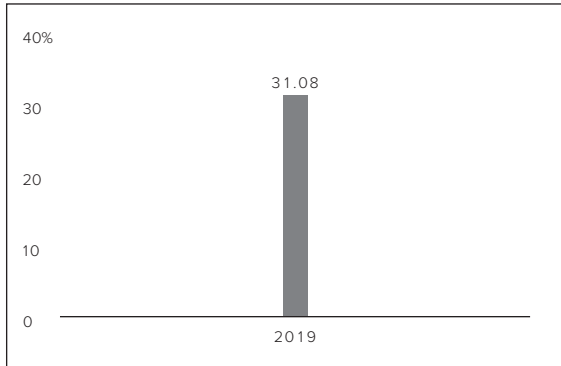
Liquidity Risk — The risk that certain securities may be difficult or impossible to sell at the time and the price that the Fund would like. The Fund may have to lower the price of the security, sell other securities instead or forego an investment opportunity, any of which could have a negative effect on Fund management or performance.

Leverage Risk — The Fund's use of derivatives may result in the Fund's total investment exposure substantially exceeding the value of its portfolio securities and the Fund's investment returns depending substantially on the performance of securities that the Fund may not directly own. The use of leverage can amplify the effects of market volatility on the Fund's share price and may also cause the Fund to liquidate portfolio positions when it would not be advantageous to do so in order to satisfy its obligations. The Fund's use of leverage may result in a heightened risk of investment loss.

Investing in the Fund involves risk, and there is no guarantee that the Fund will achieve its investment goal. You could lose money on your investment in the Fund, just as you could with other investments. An investment in the Fund is not a deposit of a bank and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency.

Performance Information

The bar chart and the performance table below provide some indication of the risks of investing in the Fund by showing the Fund's performance for the past calendar year and by showing how the Fund's average annual returns for 1 year and since the Fund's inception, compare with those of a broad measure of market performance. The Fund's past performance (before and after taxes) is not necessarily an indication of how the Fund will perform in the future. For current performance information, please call 1-800-DIAL-SEI.



Best Quarter: 13.93% (03/31/19)

Worst Quarter: 1.35% (9/30/19)

Average Annual Total Returns (for the periods ended December 31, 2019)

After-tax returns are calculated using the historical highest individual federal marginal income tax rates and do not reflect the impact of state and local taxes. Your actual after-tax returns will depend on your tax situation and may differ from those shown. After-tax returns shown are not relevant to investors who hold their Fund shares through tax-deferred arrangements, such as 401(k) plans or individual retirement accounts.

| Large Cap Index Fund | 1 Year | Since Inception (1/31/2018) |
|---|--------|-----------------------------|
| Return Before Taxes | 31.08% | 8.99% |
| Return After Taxes on Distributions | 30.51% | 8.45% |
| Return After Taxes on Distributions and Sale of Fund Shares | 18.69% | 6.80% |
| Russell 1000 Index Return (reflects no deduction for fees, expenses or taxes) | 31.43% | 9.33% |

Management

Investment Adviser and Portfolio Manager. SEI Investments Management Corporation

| Portfolio Manager | Experience with the Fund | Title with Adviser |
|-----------------------|--------------------------|--------------------|
| Stephen C. Dolce, CFA | Since 2018 | Portfolio Manager |
| David L. Hintz, CFA | Since 2018 | Portfolio Manager |

Sub-Adviser and Portfolio Managers.

| Sub-Adviser | Portfolio Managers | Experience with the Fund | Title with Sub-Adviser |
|-----------------------------|----------------------|--------------------------|--|
| SSGA Funds Management, Inc. | Michael Feehily, CFA | Since 2018 | Senior Managing Director and Head of Global Equity Beta Solutions in the Americas |
| | Karl Schneider, CAIA | Since 2018 | Managing Director and Deputy Head of Global Equity Beta Solutions in the Americas |
| | Mark Krivitsky | Since 2018 | Vice President and Senior Portfolio Manager in the Global Equity Beta Solutions Group and the Tax-Efficient Market Capture Group |

Purchase and Sale of Fund Shares

The minimum initial investment for Class F Shares is \$100,000 with minimum subsequent investments of \$1,000. Such minimums may be waived at the discretion of SIMC. You may purchase and redeem shares of the Fund on any day that the New York Stock Exchange (NYSE) is open for business (a Business Day). You may sell your Fund shares by contacting your authorized financial institution or intermediary directly. Authorized financial institutions and intermediaries may redeem Fund shares on behalf of their clients by contacting the Fund's transfer agent (the Transfer Agent) or the Fund's authorized agent, using certain SEI Investments Company (SEI) or third party systems or by calling 1-800-858-7233, as applicable.

Tax Information

The distributions made by the Fund generally are taxable and will be taxed as ordinary income or capital gains. If you are investing through a tax-deferred arrangement, such as a 401(k) plan or individual retirement account, you will generally not be subject to federal taxation on Fund distributions until you begin receiving distributions from your tax-deferred arrangement. You should consult your tax advisor regarding the rules governing your tax-deferred arrangement.

Payments to Broker-Dealers and Other Financial Intermediaries

If you purchase Fund shares through a broker-dealer or other financial intermediary (such as a bank), the Fund and its related companies may pay the intermediary for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the broker-dealer or other intermediary and your salesperson to recommend the Fund over another investment. Ask your salesperson or visit your financial intermediary's website for more information.