# Fact Sheet As of 12/31/2022 MassMutual Small Cap Opportunities Fund

ADM:MSCLX

Invesco Advisers, Inc.

#### I:MSOOX SVC:MSVYX R5:MSCDX

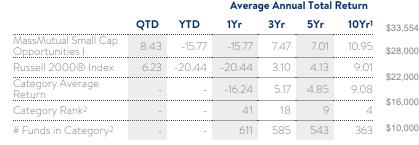
## **Fund Objective:**

This Fund seeks capital appreciation.

#### Trailing Returns:\*\*

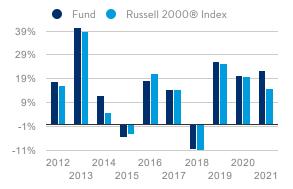
### Growth of \$10,000:\*\*

A:DLBMX



Performance shown is for class I shares. Max Sales charge for I is 0%.

#### Calendar Year Returns:\*



### **Asset Allocation:**

| Cash                | 1.41 %  |
|---------------------|---------|
| US Equity           | 94.53 % |
| Non-US Equity       | 4.06 %  |
| Other               | 0.00 %  |
| # of Stock Holdings | 95      |

Sector Allocation:

2013

2014

2015

| Consumer Discretionary | 10.32%  |
|------------------------|---|
| Consumer Staples       | 4.52%   |
| Energy                 | 5.74%   |
| Financials             | 14.78%  |
| Healthcare             | 15.73%  |
| Industrials            | 21.61%  |
| Information Technology | 12.35%  |
| Materials              | 5.47%   |
| Real Estate            | 4.41%   |
| Communication Services | 1.91%   |
| Utilities              | 1.74%   |
|                        | Consumer Staples<br>Energy<br>Financials<br>Healthcare<br>Industrials<br>Information Technology<br>Materials<br>Real Estate<br>Communication Services |

\*\*Performance shown is for class I shares. Current performance may be higher or lower. Max Sales charge for I is 0%.

Performance shown is past performance. Past performance does not guarantee future results. The investment return and the principal value of an investment will fluctuate; so an investor's shares, when redeemed, may be worth more or less than their original cost. For more current information, including a list of the fund's holdings and month-end performance, please call 1-866-444-2601. You cannot invest directly in an index.

1Pre-Inception Returns - The inception date listed is that of the oldest share class of the Fund. The inception date for each individual share class can be found on page 2. Performance shown subsequent to the inception date is the actual performance of the share class. Other share classes of the investment itself have existed longer, which accounts for any pre-inception performance shown. The pre-inception performance of Class I for the periods prior to its inception date of (04/01/2014) is based on the performance of an older share class, Class R5, using the expenses and fees of Class R5. If the expenses of the newer share class was used rather than the expenses of the old share class (due to lower expenses of the new share class), it would have resulted in better performance. When pre-inception performance is shown, the Morningstar Rating is based on the oldest surviving share class of the fund and is represented by hollow stars.

**Performance Returns** - reflect performance of the investment without adjusting for sales charges or the effects of taxation, but is adjusted to reflect all actual ongoing investment expenses and assumes reinvestment of dividends and capital gains (if applicable). If adjusted, sales charges would reduce the performance quoted. In addition, due to market volatility, performance may vary greatly over short periods of time. The investment's performance is generally compared with that of an index. The index is an unmanaged portfolio of specified securities and does not reflect any initial or ongoing expenses nor can it be invested in directly. An investment's portfolio may differ significantly from the securities in the index. The Index may not be the same as the comparative index noted in the investment's prospectus (if applicable).

The Growth of \$10,000 - graph shows an investment's performance based on how \$10,000 invested in the investment would have grown over time. The growth of \$10,000 begins at the investment's inception date or the first year listed on the graph, whichever is appropriate.

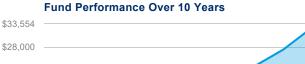
NOT FDIC INSURED • MAY LOSE VALUE • NO BANK GUARANTEE



.... MassMutual

**Funds** 

Morningstar Category: Small Cap Blend Fund Net Assets: \$312M Fund Inception Date: 07/17/1998



2016

2017

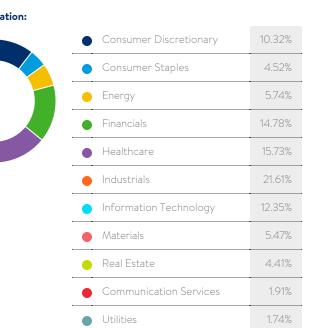
2018

2019

2020

2021

2022



## MassMutual Small Cap Opportunities Fund

| Acadia Healthcare Co Inc         | 2.33% |
|----------------------------------|-------|
| Inspire Medical Systems Inc      | 2.29% |
| AutoNation Inc                   | 2.02% |
| Ziff Davis Inc                   | 1.85% |
| Curtiss-Wright Corp              | 1.79% |
| KBR Inc                          | 1.75% |
| CACI International Inc Class A   | 1.73% |
| Stifel Financial Corp            | 1.71% |
| Four Corners Property Trust Inc  | 1.69% |
| BJ's Wholesale Club Holdings Inc | 1.59% |

|       | Inception<br>Date | Gross<br>Expense | Net<br>Expense |
|-------|-------------------|------------------|----------------|
|       | 04/01/2014        | 0.65%            | 0.65%          |
| R5    | 11/01/2004        | 0.75%            | 0.75%          |
| Svc   | 11/01/2004        | 0.85%            | 0.85%          |
| Admin | 11/01/2004        | 0.95%            | 0.95%          |
| A     | 07/17/1998        | 1.20%            | 1.20%          |
| R4    | 04/01/2014        | 1.10%            | 1.10%          |
| R3    | 04/01/2014        | 1.35%            | 1.35%          |

**Expense Ratios:** 

Portfolio Managers:

#### Risk/Return Statistics:\*\*\*

|                    | Fund   | Benchmark |
|--------------------|--------|-----------|
| Standard Deviation | 23.28  | 23.50     |
| Information Ratio  | 0.64   | -         |
| Alpha              | 2.85   | -         |
| Beta               | 0.97   | 1.00      |
| R2                 | 0.96   | 1.00      |
| Tracking Error     | 4.48   | -         |
| Sharpe Ratio       | 0.36   | 0.24      |
| Upside Capture     | 103.84 | 100.00    |
| Downside Capture   | 95.02  | 100.00    |
| Batting Average    | 51.67  | -         |

#### Fund Ratings:<sup>2</sup>

**Top 10 Holdings:** 

| -              | Morningstar<br>Rating | Funds in<br>Category |
|----------------|-----------------------|----------------------|
| Overall Rating | ****                  | 585                  |
| 3 Year         | ****                  | 585                  |
| 5 Year         | ****                  | 543                  |
| 10 Year        | 10000                 | 363                  |

|   | Managed<br>Since |
|---|------------------|
| Matthew P. Ziehl, CFA<br>Invesco Advisors | May. 2009        |
| Adam Weiner<br>Invesco Advisors           | Apr. 2013        |
| Joy Budzinski<br>Invesco Advisors         | Apr. 2013        |

|  | Managed<br>Since |
|--|------------------|
| Raman Vardharaj, CFA<br>Invesco Advisors | May. 2009        |
| Magnus Krantz<br>Invesco Advisors        | Apr. 2013        |

\*\*\*Risk statistics are calculated over a five year period, computed monthly.

<sup>2</sup>Morningstar Rating<sup>™</sup>- Category-Small Cap Blend. For each investment with at least a three-year history, Morningstar calculates a Morningstar Rating<sup>™</sup> based on how an investment ranks on a Morningstar Risk-Adjusted Return measure against other investments in the category. This measure takes into account variations in an investment's monthly performance after adjusting for sales loads (except for load-waived A shares), redemption fees, and the risk-free rate, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of investments in each category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars and the bottom 10% receive 1 star. The Overall Morningstar Rating for an investment is derived from a weighted average of the ratings for the three-, five- and ten-year (if applicable) time periods. The Morningstar percentile ranking is based on the fund's total-return percentile rank relative to all funds that have the same category to the same time period. The Morningstar Percentile ranking is based on the fund's total-return percentile rank relative to all funds that have the same category to the same time period. the three, interview and the lowest (in applicable) time periods. The Moningstal percentile ranking is based on the fund is total return be certifie rank is total return vertice and the lowest (or least favorable) percentile rank is 100%. Morningstar total return includes both income and capital gains or losses and is not adjusted for sales charges. ©2022 Morningstar, Inc. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information.

The Fund's **Principal Risks** include - Equity Securities Risk, Small and Mid-Cap Company Risk, Foreign Investment Risk, Emerging Markets Risk, Currency Risk, Growth Company Risk, Value Company Risk, Cash Position Risk, Liquidity Risk, Management Risk, Market Risk, Quantitative Models Risk, Sector Risk, Valuation Risk.

**Risk Statistics- Standard Deviation** is a statistical measurement, which for a mutual fund depicts how widely the returns varied over a certain period of time. When a fund has a high standard deviation, performance is wide, implying greater volatility. **Information Ratio** measures the performance of an investment compared to a benchmark index, after adjusting for its additional risk. **Alpha** is a measure of the difference between a performance of an investment compared to a benchmark index, after adjusting for its additional risk. Alpha is a measure of the difference between a fund's actual returns and its expected performance, given its level of risk as measured by beta. A positive alpha figure indicates the fund has performed better than its beta would predict. In contrast, a negative alpha indicates the fund's underperformance, given the expectations established by the fund's excess return is expected to be 10% better than the market's excess return in an up market or 10% worse in a down market. A beta of .85 indicates that the fund's excess return is expected to be 10% better than the market's excess return of the dund and the of the index. The bigher the R-squared (R2) measures the degree of relationship between the performance of the fund and that of the index. The higher the R-squared, the more related the fund's performance is to its index. **Tracking Error** is also known as active risk and is the degree to which the strategy differed from its index or benchmark. The higher the Tracking Error, the more the fund deviated from its index. **Sharpe Ratio** measures risk adjusted performance; it is calculated as the real total return of the fund (total return-risk free rate) divided by the risk of the fund (standard deviation). **Upside/downside** capture shows whether a given fund has outperformed-regined more or lost less than -a broad market benchmark during periods of market strength and weakness, and if so, by how much. An upside capture ratio over 100 indicates a fund has generally outperformed the benchmark in periods when the benchmark has been in the red. **Batting Average** is a measure of a manager's ability to consistently beat its benchmark over the trailing five-year period. **Russell 2000@ Index** measures the performance of the small-cap segment of the U.S. equity universe. It is a subset of the Russell 3000@ Index and

**Russell 2000® Index** measures the performance of the small-cap segment of the U.S. equity universe. It is a subset of the Russell 3000® Index and includes approximately 2000 of the smallest securities based on a combination of their market cap and current index membership. The Index does not reflect any deduction for fees, expenses, or taxes and cannot be purchased directly by investors.

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Investors should consider an investment option's objectives, risks, fees, and expenses carefully before investing. This and other information can be found in the applicable prospectuses or summary prospectuses, which are available from MassMutual by calling 1-866-444-2601. Please read them carefully before investing. RS9093a RS-48779-00