

**PORTFOLIO MANAGER**

**John O. Barr**

Manager since 1/2010

**Education:**  
 Colgate University  
 Harvard Business School

**Experience:**

**1980 - 1995:** Technology industry experience  
**1995 - 2000:** Needham & Company, LLC  
**2000 - 2002:** Robertson Stephens & Co.  
**2002 - 2008:** Buckingham Capital Management, Inc.  
**2008 - 2009:** Oliver Investment Management, LLC  
**2009 - PRESENT:** Needham Investment Management, LLC

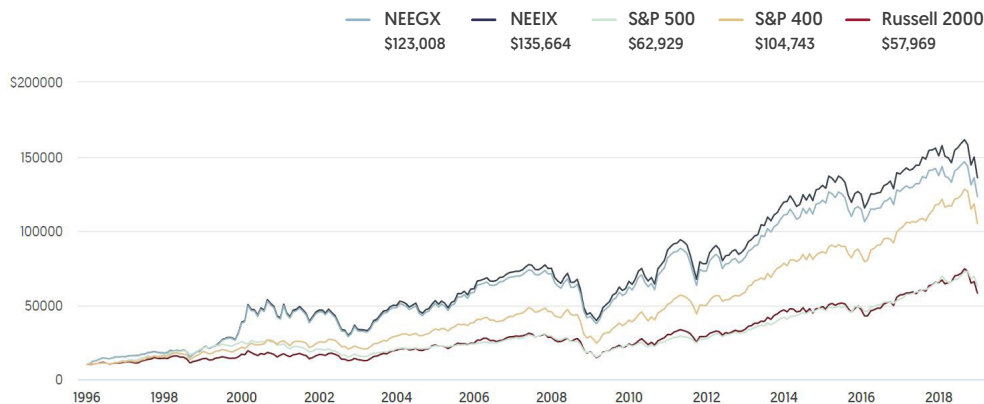

**Chris Retzler**

Manager since 1/2009

**Education:**  
 Bucknell University  
 Fulbright Scholar  
 Columbia Business School

**Experience:**

**1994 - 2002:** Merrill Lynch Investment Banking  
**2002 - 2005:** Winterkorn Orthopedic  
**2005 - PRESENT:** Needham Investment Management, LLC

**GROWTH OF \$10,000 INVESTMENT AS OF DECEMBER 31, 2018**


The chart illustrates the performance of a hypothetical \$10,000 investment made in the Fund since the Fund's inception. Assumes reinvestment of dividends and capital gains, but does not reflect the effect of any redemption fees. This chart does not imply any future performance.

**DEFINITIONS**

**ACTIVE SHARE:** Represents the proportion of portfolio holdings that differ from those in the benchmark index.

**ALPHA:** Measures the difference between the Fund's actual returns and its benchmark, given its level of risk as measured by beta. The difference is expressed as an annual percentage.

**BETA:** Measures the volatility of the fund, as compared to that of the overall market.

**MAXIMUM DRAWDOWN:** Measures the largest single drop from peak to trough in the value of a portfolio (before a new peak is achieved).

**DOWNSIDE CAPTURE RATIO:** Measures a fund's performance versus a benchmark during periods where the benchmark had a negative return.

**FUND HIGHLIGHTS**

- Seeks to create long-term, tax-efficient capital appreciation
- Focus on domestic growth equities in sectors including technology, healthcare, energy, specialty retail, media and business and consumer services
- Sound valuation discipline of buying growth companies at a reasonable price
- Seeks to invest in companies with focused, incentivized management teams
- Seeks investments with unrecognized product or operating margin expansion opportunities
- The Fund may engage in short sales and hold cash
- Invests in venture-backed post-IPO opportunities

RISK/REWARD METRICS*	FUND	S&P 500
Average Annual Return	11.53	8.33
Active Share	109.1	0.00
Alpha	3.30	0.00
Beta	1.07	1.00
Maximum Drawdown	-49.15	-50.95
Downside Capture Ratio	103.98	100.00
Standard Deviation	21.31	14.83
R-Squared	55.06	100.00
Sharpe Ratio	0.42	0.40

\*Risk/Reward metrics based on the Fund's retail share class. Metrics are since inception of the Fund, 1/1/96 to 12/31/18. Active Share is as of 12/31/18.

TOP TEN HOLDINGS	% OF NET ASSETS
Thermo Fisher Scientific, Inc.	9.39%
Gilead Sciences, Inc.	6.45%
CarMax, Inc.	6.39%
KVH Industries, Inc.	6.01%
Becton Dickinson and Co.	5.54%
PDF Solutions, Inc.	5.01%
FormFactor, Inc..	4.88%
Entegris, Inc.	4.80%
Comcast Corp. Class A	4.70%
Amber Road, Inc.	4.39%
<b>Total</b>	<b>57.56%</b>

MARKET CAPITALIZATION EXPOSURE	
>\$8 billion	45.50%
\$2-8 billion	16.47%
\$250 million- \$2 billion	25.56%
<\$250 million	12.47%

FUND STATISTICS	
Net Assets	\$83 million
12-month Trailing Turnover	8%

CLASS STATISTICS	RETAIL	INSTITUTIONAL
Share Class	No-Load	No-Load
NASDAQ Symbol	NEEGX	NEEIX
NAV	\$33.04	\$33.45
Minimum Initial Investment	\$2,000/\$1,000 for IRA	\$100,000
Minimum Subsequent Investment	\$100/No min for IRA	None
12b-1 Fees	0.25%	None
Gross Expense Ratio	2.34%	2.15%
Net Expense Ratio*	2.34%	1.90%
Inception Date	1/1/1996	12/30/2016

\*Reflects a contractual agreement by the Fund's investment adviser to waive its fee and/or reimburse the Fund through May 1, 2019 to the extent the Gross Expense Ratio exceeds 1.95% and 1.40% of the average daily net assets of Retail Class Shares and Institutional Class Shares (Expense Cap). The Expense Cap excludes taxes, interest, brokerage, dividends on short positions, fees and expenses of "acquired funds," extraordinary items and shareholder redemption fees but includes the management fee.

**AVERAGE ANNUAL RETURNS AS OF 12/31/18**

	3 MO	YTD	1YR	3YR	5YR	10YR	SINCE INCEPT.
Needham Growth Fund Inst Class**	-14.11%	-9.83%	-9.83%	2.92%	2.61%	11.73%	12.01%
After Taxes on Distributions	-16.98%	-12.84%	-12.84%	0.72%	0.68%	10.41%	10.63%
After Taxes on Distributions & Redemptions	-6.01%	-3.36%	-3.36%	2.42%	2.09%	9.84%	10.29%
Needham Growth Fund Retail Class	-14.22%	-10.26%	-10.26%	2.43%	2.14%	11.25%	11.53%
After Taxes on Distributions	-17.11%	-13.29%	-13.29%	0.23%	0.22%	9.93%	10.15%
After Taxes on Distributions and Redemptions	-6.06%	-3.61%	-3.61%	2.05%	1.74%	9.43%	9.86%
S&P 500 TR Index	-13.52%	-4.38%	-4.38%	9.26%	8.49%	13.12%	8.33%
S&P 400 Index	-17.28%	-11.08%	-11.08%	7.66%	6.03%	13.68%	10.75%
Russell 2000 Total Return Index	-20.20%	-11.01%	-11.01%	7.36%	4.41%	11.97%	7.94%

The Needham Growth Fund inception date is 1/1/96. Performance data quoted represents past performance and does not guarantee future results. Figures include changes in principal value, reinvested dividends and capital gains distributions. Investment return and principal value will vary, and shares may be worth more or less at redemption than at original purchase. Current performance may be lower or higher than the performance data quoted. Please visit [www.needhamfunds.com](http://www.needhamfunds.com) or call 1-800-625-7071 for the most current month-end performance data.

\*\*Performance for any periods prior to the inception date of Institutional Class Shares are based on the historical performance of the Retail Class Shares adjusted to assume the expenses associated with Institutional Class Shares.

**INDUSTRY WEIGHTINGS\*\*\***

SECTOR	LONG	(SHORT)	NET
Airlines	0.3%	0.0%	0.3%
Biotechnology	6.9%	0.0%	6.9%
Capital Markets	1.0%	0.0%	1.0%
Commercial Services & Supplies	0.1%	0.0%	0.1%
Communications Equipment	10.0%	-5.6%	4.4%
Consumer Finance	0.0%	-1.0%	-1.0%
Diversified Manufacturing	0.2%	0.0%	0.2%
Electrical Equipment/Electronic Equipment, Instruments & Components	6.9%	0.0%	6.9%
Energy Equipment & Services	1.7%	0.0%	1.7%
Entertainment	0.9%	0.0%	0.9%
Health Care Equipment & Supplies/Health Care Providers & Services	10.2%	0.0%	10.2%
Household Products	0.6%	0.0%	0.6%
Industrial Conglomerates	0.4%	0.0%	0.4%
Insurance	0.2%	-0.2%	0.0%
IT Services	2.9%	0.0%	2.9%
Life Sciences Tools & Services	10.1%	0.0%	10.1%
Media	5.1%	0.0%	5.1%
Oil, Gas & Consumable Fuels	0.5%	0.0%	0.5%
Semiconductors & Semiconductor Equipment	23.3%	0.0%	23.3%
Software	9.9%	0.0%	9.9%
Specialty Retail	6.9%	0.0%	6.9%
Technology Hardware, Storage & Peripherals	6.1%	0.0%	6.1%
Trading Companies & Distributors	1.9%	0.0%	1.9%
Cash	0.7%	0.0%	0.7%
<b>Total</b>	<b>106.8%</b>	<b>-6.8%</b>	<b>100.0%</b>

**DEFINITIONS AND DISCLOSURES**

This report is not an offer of the Needham Growth Fund. Shares are sold only through the currently effective prospectus, which must precede or accompany this report. To obtain a copy of the Fund's current prospectus, please visit [www.needhamfunds.com](http://www.needhamfunds.com) or contact the Fund's transfer agent, U.S. Bancorp Fund Services, LLC at 1-800-625-7071. Funds holding smaller capitalized companies are subject to greater price fluctuation than those of larger companies. Total return figures include reinvestment of all dividends and capital gains

*Please read the prospectus or summary prospectus and consider the investment objectives, risks, and charges and expenses of the Fund carefully before you invest. The prospectus and summary prospectus contain this and other information about the Fund. Short sales present the risk that the price of the security sold short will increase in value between the time of the short sale and the time the Fund must purchase the security to return it to the lender. The Fund may not be able to close a short position at a favorable price or time and the loss of value on a short sale is potentially unlimited. Investment returns and principal value will fluctuate, and when redeemed, shares may be worth more or less than their original cost. The results contained in this report represent past performance of the Fund. Past performance does not guarantee future results and current performance may be higher or lower than these results*

\*\*\*Percentage of total investments as of 12/31/18, which means all stocks held long plus cash minus all short positions.

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