

**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

**FUND HIGHLIGHTS**

- Seeks to create long-term, tax-efficient capital appreciation
- Focus on domestic growth equities with the potential to compound returns over a multi-year horizon
- Seeks to invest in companies with high returns on capital that may be obscured by a period of investment
- Seeks to invest in companies run by founders or tenured managers with a long-term vision
- Expertise 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
- The Fund may engage in short sales and hold cash
- Invests in venture-backed post-IPO opportunities

**GROWTH OF \$10,000 INVESTMENT AS OF JUNE 30, 2019**

— NEAGX	— NEAIX	— S&P 500	— Russell 2000
\$45,452	\$50,124	\$37,152	\$42,591



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 a 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.

**STANDARD DEVIATION:** A statistical measure of portfolio risk used to measure variability of total return around an average, over a specified period of time. The greater the standard deviation over the period, the wider the variability or range of returns and hence, the greater the fund's volatility.

**R-SQUARED:** Measures the percentage of a fund's returns that can be explained by the returns of the benchmark.

**SHARPE RATIO:** Is calculated by subtracting the risk-free rate, such as that of the 10-year U.S. Treasury bond from the rate of return for a portfolio and dividing the result by the standard deviation of the portfolio returns.

RISK/REWARD METRICS*	FUND	RUSSELL 2000
Average Annual Return	8.87	8.47
Active Share	101.2	0.00
Alpha	1.32	0.00
Beta	0.81	1.00
Maximum Drawdown	-38.68	-52.89
Downside Capture Ratio	83.43	100.00
Standard Deviation	16.93	18.83
R-Squared	80.50	100.00
Sharpe Ratio	0.45	0.43

\*Risk/Reward metrics based on the Fund's retail share class. Metrics are since inception of the Fund, 9/4/01 to 6/30/19. Active Share is as of 6/30/19.

TOP TEN HOLDINGS	% OF NET ASSETS
PDF Solutions, Inc.	10.53%
Entegris, Inc.	9.84%
KVH Industries, Inc.	8.82%
Apple, Inc.	8.69%
GSE Systems, Inc.	5.76%
Vicor Corp.	4.33%
Akamai Technologies, Inc.	4.14%
MKS Instruments, Inc.	3.93%
CarMax, Inc.	3.91%
DIRTT Environmental Solutions	3.90%

**Total** **63.85%**

MARKET CAPITALIZATION EXPOSURE	
>\$8 billion	24.56%
\$2-8 billion	19.84%
\$250 million - \$2 billion	33.89%
<\$250 million	21.71%

**FUND STATISTICS**

Net Assets	\$46 million
12-month Trailing Turnover	7%

**CLASS STATISTICS**

	RETAIL	INSTITUTIONAL
Share Class	No-Load	No-Load
NASDAQ Symbol	NEAGX	NEAIX
NAV	\$20.62	\$20.95
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	2.97%	2.79%
Net Expense Ratio*	2.91%	2.35%
Inception Date	9/4/2001	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, 2020 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 6/30/19**

	3 MO	YTD	1YR	3YR	5YR	10YR	SINCE INCEPT.
Needham Aggressive Growth Fund Inst Class**	4.85%	22.66%	-2.64%	11.10%	6.48%	12.18%	9.47%
After Taxes on Distributions	4.85%	22.66%	-5.66%	8.93%	4.54%	11.11%	8.51%
After Taxes on Distributions & Redemptions	2.87%	13.41%	0.16%	8.40%	4.82%	10.02%	7.90%
Needham Aggressive Growth Fund Retail Class	4.72%	22.30%	-3.15%	10.49%	5.90%	11.57%	8.87%
After Taxes on Distributions	4.72%	22.30%	-6.20%	8.31%	3.96%	10.50%	7.92%
After Taxes on Distributions and Redemptions	2.80%	13.20%	-0.13%	7.92%	4.37%	9.49%	7.36%
Russell 2000 Index	2.10%	16.98%	-3.31%	12.30%	7.06%	13.45%	8.47%
S&P 500 Index	4.30%	18.54%	10.42%	14.19%	10.71%	14.70%	7.64%

The Needham Aggressive Growth Fund inception date is 9/04/01. 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
Aerospace & Defense	0.2%	0.0%	0.2%
Airlines	0.2%	0.0%	0.2%
Building Products	4.5%	0.0%	4.5%
Commercial Services & Supplies	0.7%	0.0%	0.7%
Communications Equipment	8.9%	-0.9%	8.0%
Consumer Finance	0.0%	-0.7%	-0.7%
Construction Materials	0.4%	0.0%	0.4%
Electrical/Electronic Equipment, Instruments & Components	8.2%	0.0%	8.2%
Energy Equipment & Services	1.9%	0.0%	1.9%
Entertainment	0.7%	0.0%	0.7%
Health Care Equipment & Supplies/Health Care Providers & Services	3.4%	0.0%	3.4%
Health Care Technology	0.6%	0.0%	0.6%
Household Durables/Household Products	3.3%	0.0%	3.3%
Insurance	0.0%	-0.1%	-0.1%
Interactive Media & Services	0.1%	0.0%	0.1%
IT Services	4.2%	0.0%	4.2%
Life Sciences Tools & Services	0.1%	0.0%	0.1%
Machinery	1.1%	0.0%	1.1%
Professional Services	0.4%	0.0%	0.4%
Real Estate Investment Trusts (REITs)	2.2%	0.0%	2.2%
Semiconductors & Semiconductor Equipment	31.1%	0.0%	31.1%
Software	9.8%	0.0%	9.8%
Specialty Retail	3.9%	0.0%	3.9%
Technology Hardware, Storage & Peripherals	12.0%	0.0%	12.0%
Trading Companies & Distributors	0.3%	0.0%	0.3%
Cash	3.5%	0.0%	3.5%
<b>TOTAL</b>	<b>101.7%</b>	<b>1.7%</b>	<b>100.0%</b>

\*\*\*Percentage of total investments as of 6/30/19, which means all stocks held long plus cash minus all short positions.

For information, please call 1-800-625-7071 or visit [www.needhamfunds.com](http://www.needhamfunds.com)

**DEFINITIONS AND DISCLOSURES**

This report is not an offer of the Needham Aggressive 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 6/30/19, which means all stocks held long plus cash minus all short positions. The Global Industry Classification Standard (GICS®) was developed by and/or is the exclusive property of MSCI, Inc. and Standard & Poor's Financial Services LLC ("S&P"). GICS is a service mark of MSCI and S&P and has been licensed for use by U.S. Bancorp FundServices, LLC.

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