

Semi-Annual Report

Needham Funds

Seeking to build wealth for long-term investors.

June 30, 2019

Needham Growth Fund

Needham Aggressive Growth Fund

Needham Small Cap Growth Fund

 **Needham Funds**

www.needhamfunds.com

Beginning on January 1, 2021, as permitted by regulations adopted by the Securities and Exchange Commission, paper copies of the Funds' shareholder reports will no longer be sent by mail, unless you specifically request paper copies of the reports from the Funds 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.

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- **Are NOT FDIC insured**
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- **May lose value**

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August 2019

Dear Shareholders, Friends of Needham and Prospective Shareholders,

We are pleased to report results for the half-year ended June 30, 2019 for the Needham Growth Fund, the Needham Aggressive Growth Fund and the Needham Small Cap Growth Fund. Our mission is to create wealth for long-term investors and the first half of 2019 was a good step forward.

Review of the First Half of 2019

In January, the markets roared and the Needham Funds earned back the December losses and most of the fourth quarter 2018 losses. Talk of a global economic slowdown created uncertainty surrounding the U.S. Federal Reserve's plan to increase interest rates in 2019. On January 25, the 35-day partial U.S. Federal government shutdown ended.

At its February 1 meeting, the Federal Reserve decided to hold interest rates flat and forego the planned hikes for 2019, confirming what the market had anticipated. The Fed cited slow growth in China and Europe, Brexit, the risks of U.S.-China trade talks, and the government shutdown. While a Federal Reserve pause is good for the equity markets, we also recognize that 2.25-2.50% is a historically low range for interest rates. We have long said that as a rule, monetary authorities pursue easy money policies. Paul Volcker was the one exception in the last 40 years. We believe equity markets could continue to benefit in 2019 from these easy monetary policies.

In February, fourth quarter 2018 GDP growth was confirmed at 2.6%, versus an initial estimate of 1.8-2.0%. The U.S. also agreed to postpone its announced tariff increase from 10% to 25% on \$200 billion of Chinese goods, and trade negotiations continued. In House testimony, Federal Reserve Chairman Powell confirmed that the Fed will pause on its plan to downsize its \$4 trillion balance sheet.

March was a relatively flat month. Inverted yield curves have traditionally foreshadowed economic slowdowns. For a few days in March, the yield curve inverted when the yield on 10-Year Treasuries fell below maturity dates under one year. By the end of March, Chairman Powell said wages were growing, consumer confidence rebounded, and economic fundamentals were strong.

In April, the market continued its positive trend of the first quarter and the Needham Funds outperformed. Unemployment was just 3.6% and first quarter GDP growth was 3.1%. April closed with the Secretary of the Treasury making positive comments about trade negotiations with China. Within the week, the talks were off and President Trump accused the Chinese of attempting to "renegotiate" the agreement. Economists were predicting that second quarter GDP growth would fall to 1.5%, as the U.S. was threatening trade wars with Europe and China.

In May, the market was down and the Needham Funds underperformed owing to weakness in semiconductor capital equipment stocks. The economy weakened in May, and the Labor Department reported that only 72,000 jobs were added. The U.S. raised tariffs on \$200 billion of Chinese goods to 25% from 10%. A few days later, on May 15, President Trump issued a national security order effectively banning sales to Huawei over concern that Huawei posed a national security risk to the United States. The President is concerned that Huawei's leadership position in supplying 5G wireless equipment to countries around the world, including U.S. allies in Western Europe, would make U.S. communications vulnerable. As Huawei is part of the integrated worldwide electronics supply chain, May brought uncertainty to semiconductor companies. I had previously written about expecting a U.S.-China trade deal. At this point, it is hard to be an optimist on trade, although both sides would benefit from a resolution.

In response to the May economic weakness, talk of a Federal Reserve rate cut started in June. In June, the markets roared higher and the Needham Funds once again outperformed. By mid-July, Federal Reserve Chairman Powell signaled that a 25bps rate cut was appropriate in July, given concern about economic weakness.

Our outlook for 2019 remains positive, with an accommodative Federal Reserve, and value recognition in our small cap companies that lagged in 2018. We look forward to a year of patience rewarded.

Needham Aggressive Growth Fund

For the half year 2019, the Needham Aggressive Growth Fund Institutional and Retail classes returned 22.66% and 22.30%, respectively. The Russell 2000 Index returned 16.98% and the S&P 500 Index returned 18.54%.

For the first half, PDF Solutions, Inc. (PDFS) was the top contributor. The company made continued progress on its new initiatives, including a January announcement of a new agreement for Design-for-Inspection (DFI) with its lead customer, which we believe to be Taiwan Semiconductor Manufacturing Co., Ltd (TSM). DFI is used to detect electrical failures on semiconductors during the manufacturing process. PDF's business model is to provide e-beam testers, the Exensio Big Data Analytics platform and software-applications-as-a-service, which results in recurring revenue for PDF. The Fund owns the stock in anticipation of PDF addressing these markets and growing to a much larger company over the years ahead. PDF has been in a five-year investment period. We look forward to PDF's October investor day, which will be only its second in 18 years as a public company.

The second-leading contributor for the first half was nine-year-holding, Entegris, Inc. (ENTG). Entegris supplies filters and chemicals used in semiconductor advanced manufacturing processes. On January 28, Entegris and Versum Materials (VSM) announced an agreement to merge and announced \$75 million of expense savings. A month later, Merck (MRK) announced a competing bid for Versum. Merck's interest in Versum shows the value of Entegris, which is a similar business. In early April, Merck increased its bid for Versum and won the acquisition. Entegris walked away with a \$140 million break-up fee. At a comparable multiple, Entegris would be valued at \$52 per share, well above the \$37.32 June 30 closing price.

The third-leading contributor for the first half was Apple Inc. (AAPL), a 13-year holding. In the fourth quarter of 2018, Apple reported weakness in China, specifically with its new, high-end phones. It's hard to remember but 2018 brought the worst December for the U.S. stock market since 1931. Apple reported a March quarter with earnings per share, iPhone revenue and Services revenue, and gross margin above Wall Street estimates. It also increased its share buyback and raised its quarterly dividend.

For the half year, the leading detractors were the short positions in Medallion Financial Corp. (MFIN) and Ubiquiti Networks, Inc. (UBNT). We continue to believe that Medallion Financial has overstated earnings and the value of assets on its balance sheet, but the stock market has not cared. Ubiquiti furthered its retreat from the public eye by stopping its investor conference calls in January. The head of Investor Relations left the company in the first quarter. The company hasn't had a CFO since April 2015. In October 2018, Ben Moore, long-time VP of Business Development and one of only three named officers, resigned. In November 2018, Ubiquiti released earnings that showed ongoing tax audits in the U.S. and Hong Kong, and a Notice of Proposed Adjustment from the IRS relating to 2015 and 2016, indicating the company owes \$50 million. Ubiquiti disagrees and hasn't recorded a tax liability. In November 2018, Ubiquiti announced a new \$200 million stock repurchase program. Its previous buybacks have mostly been funded with bank debt.

We have not changed our thesis on Ubiquiti or Medallion Financial. However, it's hard for a mutual fund to compound returns when a short position keeps requiring capital that can be used to buy positions, which we'd like to hold for years. Consequently, we reduced both of these short positions. Combined they were -7.14% of net assets on December 31, 2018 and down to -1.57% on June 30, 2019. They were detractors in the first quarter and neutral contributors in the second quarter.

In the first half, the Needham Aggressive Growth Fund added a position in Wabtec (Westinghouse Air Brake Technologies Corp.) (WAB), a leading locomotive manufacturer. Wabtec closed its transformational acquisition of General Electric's locomotive business. We believe there is likely to be a strong market for new and retrofit locomotives over the next few years, as technology is more widely adopted and the cost of trucking and shortage of drivers makes rail an even more attractive shipping option. The Fund added to its positions in DIRT Environmental Solutions (DRT:TSE), Taiwan Semiconductor Manufacturing ADR (TSM) and Vicor Corporation (VICR).

The Fund sold its position in Amber Road upon its acquisition. The Fund's largest sales in the first half were in Electronics for Imaging, Inc. (EFI), Entegris, Inc. (ENTG), FormFactor, Inc. (FORM), and Super Micro Computer, Inc. (SMCI).

At June 30, 2019, the Fund's top 10 positions were 63.85% of net assets. The Fund had an Active Share of 101.2% versus the Russell 2000 and had trailing 12-month turnover of 7%. The Fund was short 1.7% of total investments. Once again, the Fund looks nothing like the S&P 500 and its performance was not correlated.

Needham Growth Fund

For the half year 2019, the Needham Growth Fund Institutional and Retail classes returned 25.83% and 25.45%, respectively. The Russell 2000 Index returned 16.98% and the S&P 500 Index returned 18.54%.

Like Needham Aggressive Growth Fund, for the first half, PDF Solutions, Inc. (PDFS) was the top contributor. The Fund's largest position, Thermo Fisher Scientific (TMO), was the second best contributor in the first half. The company develops instruments and consumables used in life science and other research-oriented industries, and we see continued organic growth and acquisition opportunities. Thermo Fisher is a 19-year holding of the Fund.

For the half year, the leading detractors were the short positions in Medallion Financial Corp. (MFIN) and Ubiquiti Networks, Inc. (UBNT). As with Needham Aggressive Growth Fund, we have not changed our thesis on Ubiquiti or Medallion Financial. However, it's hard for a mutual fund to compound returns when a short position keeps requiring capital that can be used to buy positions, which we'd like to hold for years. Consequently, we reduced both of these short positions. Combined they were -6.20% of net assets of the Needham Growth Fund on December 31, 2018 and down to -1.70% on June 30, 2019. They detracted from first quarter performance and were neutral contributors in the second quarter.

In the first half, the Needham Growth Fund added a position in Wabtec (Westinghouse Air Brake Technologies Corp.) (WAB), a leading locomotive manufacturer. The Fund also added to its positions in DIRTT Environmental Solutions (DRT:TSE) and Navigator Holdings (NVGS) on price weakness. The Fund sold its position in Genmark Diagnostics, Inc. (GNMK) and Hess Corp. (HES). Amber Road was acquired. The Fund reduced its positions in Electronics for Imaging, Inc. (EFII), FormFactor, Inc. (FORM), Super Micro Computer, Inc. (SMCI), Thermo Fisher Scientific, and ViaSat (VSAT).

As of June 30, 2019, the top 10 positions were 55.63% of the Fund's net assets. Trailing 12-month turnover was just 8% and the Fund's Active Share vs. the S&P 500 was 99.1%. The Fund was short 1.8% of total investments. Once again, the Fund looks nothing like the S&P 500 and its performance was not correlated.

Needham Small Cap Growth Fund

In the half-year ended June 30, 2019, the Needham Small Cap Growth Fund Institutional and Retail classes returned 29.36% and 29.03%, respectively. The Russell 2000 Index returned 16.98% and the S&P 500 Index returned 18.54%.

We are very pleased with the performance of the Fund for the first six months of the year. We have benefited significantly from our investment in Aspen Aerogels which suffered in the fourth quarter of 2018 and has since recovered. We also were rewarded from our patience in Amber Road as it received a takeover offer above \$13. We look forward to the second half of the year but do not expect volatility from headline risk to abate anytime soon. We will remain patient as we deploy our cash position.

In the first half of 2019, we were able to reduce specific positions that achieved our price targets while deploying capital into new and existing positions. While volatility may seem to be a bad word for the overall markets, it is a great chance for active managers to find buying opportunities. It is in these volatile markets when a cash position is truly strategic for small cap fund managers. Many small cap investment opportunities “trade by appointment” and we like to capitalize on these opportunities when liquidity is available to both buy and sell stock positions. The Fund continued its lean toward a concentrated portfolio of stocks, with the top 10 holdings representing 53.99% of net assets at June 30, 2019.

Top holdings at June 30, 2019 included Photronics, Inc. (PLAB), PDF Solutions, Inc. (PDFS), Aspen Aerogels, Inc. (ASPN), Zuora, Inc. (ZUO) and MACOM Technology Solutions Holdings, Inc. (MTSI). The Fund’s top contributors in the first half included Aspen Aerogels, Inc. (ASPN), Amber Road, Inc. (AMBR), PDF Solutions, Inc. (PDFS), Ultra Clean Holdings, Inc. (UCTT), Electronics For Imaging, Inc. (EFII) and Aquantia Corp. (AQ). The Fund’s largest detractors in the first half were Neophotonics Corp. (NPTN), Photonics, Inc. (PLAB), EMCORE Corp (EMKR) and Zuora, Inc. (ZUO).

After a very strong start to the year, the markets were due for a pause and pullback, and we experienced that weakness in March. The increased volatility continued throughout the second quarter due to headlines focused on trade disputes and restrictions, with particular attention paid to the Huawei ban, both on the supply chain and end-customer markets. While we recognize these impacts are meaningful and will have negative consequences for industries such as semiconductors, optical and communications, we also believe that companies have creative plans to balance their exposure to such headwinds. As the market digested daily updates from trade uncertainties, our patience paid off, and we were able to deploy a significant amount of our cash position into stocks at good value points. The Fund ended the quarter with a cash position of 17.1%, and we will remain patient as we deploy the remaining capital. After our investments in Amber Road, Inc. (AMBR), Electronics for Imaging, Inc. (EFII), Aquantia Corp. (AQ) and Quantenna Communications, Inc. (QTNA) announced their intentions to be acquired, we had the challenge of redeploying a significant amount of capital that was returned along with investment inflows into the Fund. We added to some of our larger positions, such as Photronics, Inc. (PLAB), TTM Technologies, Inc. (TTMI), EMCORE Corp. (EMKR) and Intevac, Inc. (IVAC), and remain excited about the remainder of the summer to find good points of entry to investments.

Our outlook for 2019 remains positive, with the possibilities of a U.S.-China trade deal, an accommodative Federal Reserve, and value recognition in our small cap companies that lagged in 2018. We look forward to a year of patience rewarded. We continue to believe that a good environment remains for investment in equities. Three themes we are focused on include: 1) continuation of the growth in the semiconductor capital equipment industry; 2) 5G communication infrastructure build-outs; and 3) military and defense modernization. These three areas of investment impact much of our portfolio, and we believe that long term, they should create shareholder value.

We expect the increased volatility to continue throughout 2019 and into 2020. We expect at least one but probably two rate cuts this year from the Federal Reserve unless the economy returns to very strong and sustained growth rates. While the global trade

negotiations have been painful headlines for many, any resolution to these disagreements should provide a nice tailwind to the global economy as we enter the general election of 2020. The high-yield markets remain strong, which is also supportive of the small cap asset class valuations. We reiterate from past quarterly letters that mergers and acquisitions continued in the small cap universe. We expect to see increased M&A activity to improve and benefit our portfolio of stocks in 2019.

Closing

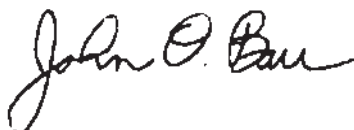
We believe the U.S. remains the best place in the world to be investing, and we continue to see an opportunity to invest in small and mid-cap stocks. Most importantly, we see a revolution happening in technology that has created and continues to create investment opportunities. We see opportunity in our strategy of investing in companies that we know well and that we believe are positioned with secular growth drivers.

We welcome our new investors and thank all of our investors for their continued support. If you have any questions, thoughts or concerns, please contact us at (800) 625-7071 or at cretzler@needhamco.com or jbarr@needhamco.com. For information about the Needham Funds, please visit our website at www.needhamfunds.com.

Sincerely,



Chris Retzler,
Portfolio Manager



John O. Barr,
Portfolio Manager

Fact Sheet Links:

Needham Growth Fund
Needham Aggressive Growth Fund
Needham Small Cap Growth Fund

The information presented in this commentary is not intended as personalized investment advice and does not constitute a recommendation to buy or sell a particular security or other investments. Past performance is no guarantee of future results. The views of the Needham Investment Management L.L.C., the Funds' investment adviser, and the securities described in this report are as of June 30, 2019; these views and portfolio holdings may have changed subsequent to this date. The specific securities discussed may, in aggregate, represent only a small percentage of a Fund's holdings. It should not be assumed that securities identified and discussed were, or will be, profitable, or that the investment decisions made in the future will be profitable, or equal the investment performance of the securities discussed herein. There can be no guarantee as to the accuracy of any outlooks for markets, sectors and securities as discussed herein.

This message is not an offer of the Needham Growth Fund, the Needham Aggressive Growth Fund or the Needham Small Cap Growth Fund. Shares are sold only through the currently effective prospectus. Please read the prospectus or summary prospectus carefully and consider the investment objectives, risks and charges and expenses of the Funds carefully before you invest. The prospectus and summary prospectus contain this and other information about the Funds and can be obtained on our website, www.needhamfunds.com or by contacting the Funds' transfer agent at 1-800-625-7071.

Investment returns and principal value will fluctuate, and when redeemed, shares may be worth more or less than their original cost. Performance data quoted represents past performance, and does not guarantee future results. Current performance may be higher or lower than these results. Performance current to the most recent month-end may be obtained by calling our transfer agent at 1-800-625-7071. Total return figures include reinvestment of all dividends and capital gains.

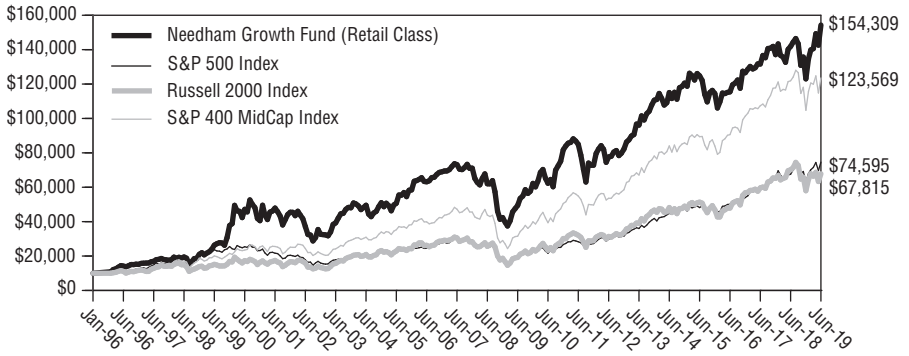
All three of the Needham Funds have substantial exposure to small and micro capitalized companies. Funds holding smaller capitalized companies are subject to greater price fluctuation than those of larger companies. Needham & Company, LLC, member FINRA/SIPC, is the distributor of The Needham Funds, Inc.

The Russell 2000 Index is a broad unmanaged index composed of the smallest 2,000 companies in the Russell 3000 Index. The Russell 3000 Index is a market-capitalization-weighted equity index that provides exposure to the entire U.S. stock market. The Russell 3000 Index tracks the performance of the 3,000 largest U.S.-traded stocks. Please see the disclaimer regarding these indexes under "Supplementary Information—Index Disclaimer" on page 52 of this report.

NEEDHAM GROWTH FUND

Retail Class
Ticker Symbol: NEEGX
Institutional Class
Ticker Symbol: NEEIX

Comparison of Change in Value of a \$10,000 Investment (Unaudited)



The chart above assumes an initial gross investment of \$10,000 made on January 1, 1996. The Fund's performance figures are for the period ended June 30, 2019. The Performance data quoted is historical. Past performance is no guarantee of future results. Current performance may be higher or lower than the performance data quoted. The principal value and investment return of an investment will fluctuate so that your shares, when redeemed, may be worth more or less than their original cost. The returns shown do not reflect the deduction of taxes that a shareholder would pay on Fund distributions or on the redemptions of Fund shares. In the absence of fee waivers and reimbursements, when they are necessary to keep expenses at the expense cap, total return would be reduced. Performance figures for periods greater than one year are annualized.

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Comparative Performance Statistics as of June 30, 2019 (Unaudited)

	<u>1</u> <u>Year</u>	<u>5</u> <u>Years</u>	<u>10</u> <u>Years</u>	<u>Since</u> <u>Inception</u>
Needham Growth Fund Retail Class ⁽¹⁾⁽²⁾	8.77%	6.05%	12.06%	12.35%
Needham Growth Fund Institutional Class ⁽¹⁾⁽³⁾	9.38%	n/a	n/a	8.83%
S&P 500 Index ⁽⁴⁾⁽⁵⁾	10.42%	10.71%	14.70%	8.93% ⁽⁸⁾
S&P 400 MidCap Index ⁽⁴⁾⁽⁶⁾	1.36%	8.02%	14.64%	11.29% ⁽⁸⁾
Russell 2000 Index ⁽⁴⁾⁽⁷⁾	-3.31%	7.06%	13.45%	8.49% ⁽⁸⁾

Past performance does not guarantee future results. The performance data quoted represents past performance, and current returns may be lower or higher. The investment return and net asset value will fluctuate so that an investor's shares, when redeemed, may be worth more or less than the original cost. To obtain performance information current to the most recent month-end, please call 1-800-625-7071. The returns shown in the above table and accompanying footnotes are net of expenses. The table above does not reflect the deduction of taxes that a shareholder would have paid on Fund distributions or on the redemption of Fund shares.

1. Investment results calculated after reinvestment of dividends.
2. The inception date of the Retail Class was 1/1/96.
3. The inception date of the Institutional Class was 12/30/16.
4. It is not possible to invest directly in an index. The performance of the index does not include the deduction of expenses associated with a mutual fund, such as investment management fees.
5. The S&P 500 Index is a broad unmanaged measure of the U.S. stock market.
6. The S&P 400 MidCap Index is a broad unmanaged measure of the U.S. stock market.
7. The Russell 2000 Index is a broad unmanaged index composed of the smallest 2,000 companies in the Russell 3000 Index.
8. The return shown for the Index is from the Inception date of the Retail Class.

Top Ten Holdings* (Unaudited) (as a % of total investments, as of June 30, 2019)

<u>Security</u>	<u>% of Total</u> <u>Investments</u>
Thermo Fisher Scientific, Inc.	TMO 9.64%
CarMax, Inc.	KMX 7.84%
PDF Solutions, Inc.	PDFS 7.11%
Gilead Sciences, Inc.	GILD 6.36%
KVH Industries, Inc.	KVHI 5.83%
Becton Dickinson & Co.	BDX 5.51%
Comcast Corp., Class A	CMCSA 5.32%
Entegris, Inc.	ENTG 5.31%
Akamai Technologies, Inc.	AKAM 2.98%
Aspen Aerogels, Inc.	ASPN 2.87%

Top Ten Holdings = 58.77% of Total Investments†

* Current portfolio holdings may not be indicative of future portfolio holdings.

† Percentage of total investments less cash.

Sector Weightings* (Unaudited) (as a % of net investments, as of June 30, 2019)

<u>Sector</u>	<u>Long*</u>	<u>(Short)⁽¹⁾</u>	<u>Total⁽¹⁾⁽²⁾</u>
Communication Services	5.9%	—	5.9%
Consumer Discretionary	7.6%	—	7.6%
Consumer Staples	0.6%	—	0.6%
Energy	3.5%	—	3.5%
Financials	1.0%	(0.5)%	0.5%
Health Care	24.9%	—	24.9%
Industrials	5.7%	—	5.7%
Information Technology	47.4%	(1.3)%	46.1%
Cash	5.2%	—	5.2%

* Current portfolio holdings may not be indicative of future portfolio holdings.

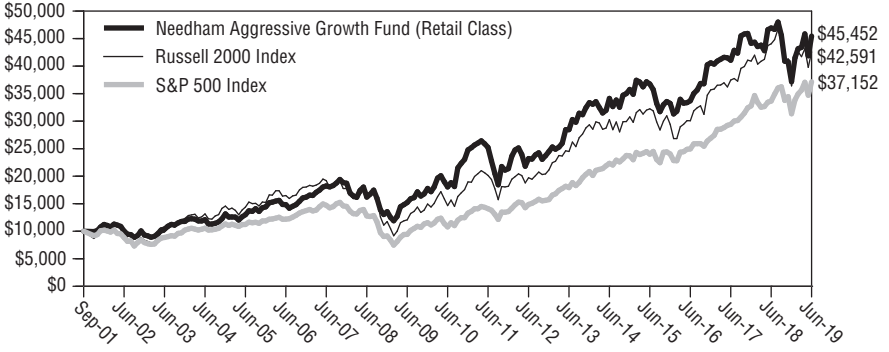
⁽¹⁾ Percentage of total investments includes all stocks, plus cash minus all short positions.

⁽²⁾ Total represents the difference between the long exposure and the short exposure, which produces the net exposure.

NEEDHAM AGGRESSIVE GROWTH FUND

Retail Class
Ticker Symbol: NEAGX
Institutional Class
Ticker Symbol: NEAIX

Comparison of Change in Value of a \$10,000 Investment (Unaudited)



The chart above assumes an initial gross investment of \$10,000 made on September 4, 2001. The Fund's performance figures are for the period ended June 30, 2019. The Performance data quoted is historical. Past performance is no guarantee of future results. Current performance may be higher or lower than the performance data quoted. The principal value and investment return of an investment will fluctuate so that your shares, when redeemed, may be worth more or less than their original cost. The returns shown do not reflect the deduction of taxes that a shareholder would pay on Fund distributions or on the redemptions of Fund shares. In the absence of fee waivers and reimbursements, when they are necessary to keep expenses at the expense cap, total return would be reduced. Performance figures for periods greater than one year are annualized.

Comparative Performance Statistics as of June 30, 2019 (Unaudited)

	1 Year	5 Years	10 Years	Since Inception
Needham Aggressive Growth Fund Retail Class ⁽¹⁾⁽²⁾	-3.15%	5.90%	11.57%	8.87%
Needham Aggressive Growth Fund Institutional Class ⁽¹⁾⁽³⁾	-2.64%	n/a	n/a	5.22%
S&P 500 Index ⁽⁴⁾⁽⁵⁾	10.42%	10.71%	14.70%	7.64% ⁽⁷⁾
Russell 2000 Index ⁽⁴⁾⁽⁶⁾	-3.31%	7.06%	13.45%	8.47% ⁽⁷⁾

Past performance does not guarantee future results. The performance data quoted represents past performance, and current returns may be lower or higher. The investment return and net asset value will fluctuate so that an investor's shares, when redeemed, may be worth more or less than the original cost. To obtain performance information current to the most recent month-end, please call 1-800-625-7071. The returns shown in the above table and accompanying footnotes are net of expenses. The table above does not reflect the deduction of taxes that a shareholder would have paid on Fund distributions or on the redemption of Fund shares.

1. Investment results calculated after reinvestment of dividends.
2. The inception date of the Retail Class was 9/4/01.
3. The inception date of the Institutional Class was 12/30/16.
4. It is not possible to invest directly in an index. The performance of the index does not include the deduction of expenses associated with a mutual fund, such as investment management fees.
5. The S&P 500 Index is a broad unmanaged measure of the U.S. stock market.
6. The Russell 2000 Index is a broad unmanaged index composed of the smallest 2,000 companies in the Russell 3000 Index.
7. The return shown for the Index is from the Inception date of the Retail Class.

Top Ten Holdings* (Unaudited) (as a % of total investments, as of June 30, 2019)

<u>Security</u>	<u>% of Total Investments</u>
PDF Solutions, Inc.	PDFS 10.84%
Entegris, Inc.	ENTG 10.12%
KVH Industries, Inc.	KVHI 9.08%
Apple, Inc.	AAPL 8.95%
GSE Systems, Inc.	GVP 5.93%
Vicor Corp.	VICR 4.46%
Akamai Technologies, Inc.	AKAM 4.26%
MKS Instruments, Inc.	MKSI 4.05%
CarMax, Inc.	KMX 4.02%
DIRTT Environmental Solutions (Canada)	DRT 4.02%

Top Ten Holdings = 65.73% of Total Investments†

* Current portfolio holdings may not be indicative of future portfolio holdings.

† Percentage of total investments less cash.

Sector Weightings* (Unaudited) (as a % of net investments, as of June 30, 2019)

<u>Sector</u>	<u>Long*</u>	<u>(Short)⁽¹⁾</u>	<u>Total⁽¹⁾⁽²⁾</u>
Communication Services	0.8%	—	0.8%
Consumer Discretionary	4.0%	—	4.0%
Consumer Staples	3.2%	—	3.2%
Energy	1.9%	—	1.9%
Financials	0.0%	(0.8)%	(0.8)%
Health Care	4.0%	—	4.0%
Industrials	11.8%	—	11.8%
Information Technology	69.8%	(0.9)%	68.9%
Materials	0.4%	—	0.4%
Real Estate	2.2%	—	2.2%
Technology Hardware & Equipment	0.0%	—	0.0%
Cash	3.6%	—	3.6%

* Current portfolio holdings may not be indicative of future portfolio holdings.

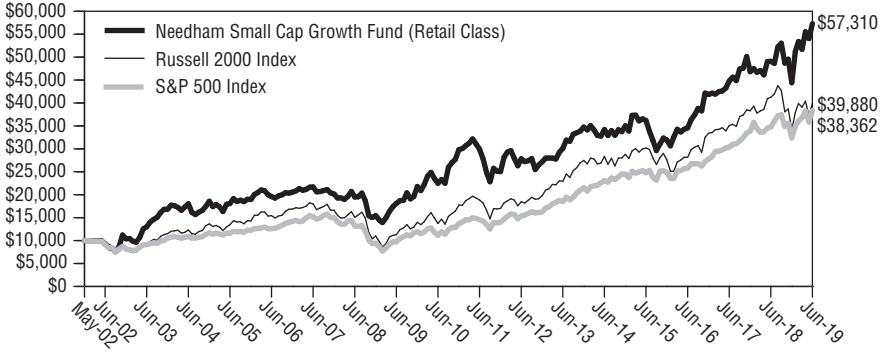
⁽¹⁾ Percentage of total investments includes all stocks, plus cash minus all short positions.

⁽²⁾ Total represents the difference between the long exposure and the short exposure, which produces the net exposure.

NEEDHAM SMALL CAP GROWTH FUND

**Retail Class
 Ticker Symbol: NESGX
 Institutional Class
 Ticker Symbol: NESIX**

Comparison of Change in Value of a \$10,000 Investment (Unaudited)



The chart above assumes an initial gross investment of \$10,000 made on May 22, 2002. The Fund's performance figures are for the period ended June 30, 2019. The Performance data quoted is historical. Past performance is no guarantee of future results. Current performance may be higher or lower than the performance data quoted. The principal value and investment return of an investment will fluctuate so that your shares, when redeemed, may be worth more or less than their original cost. The returns shown do not reflect the deduction of taxes that a shareholder would pay on Fund distributions or on the redemptions of Fund shares. In the absence of fee waivers and reimbursements, when they are necessary to keep expenses at the expense cap, total return would be reduced. Performance figures for periods greater than one year are annualized.

Comparative Performance Statistics as of June 30, 2019 (Unaudited)

	<u>1</u> <u>Year</u>	<u>5</u> <u>Years</u>	<u>10</u> <u>Years</u>	<u>Since</u> <u>Inception</u>
Needham Small Cap Growth Fund Retail Class ⁽¹⁾⁽²⁾	16.75%	10.87%	12.21%	10.74%
Needham Small Cap Growth Fund Institutional Class ⁽¹⁾⁽³⁾	17.41%	n/a	n/a	14.04%
S&P 500 Index ⁽⁴⁾⁽⁵⁾	10.42%	10.71%	14.70%	8.18% ⁽⁷⁾
Russell 2000 Index ⁽⁴⁾⁽⁶⁾	-3.31%	7.06%	13.45%	8.42% ⁽⁷⁾

Past performance does not guarantee future results. The performance data quoted represents past performance, and current returns may be lower or higher. The investment return and net asset value will fluctuate so that an investor's shares, when redeemed, may be worth more or less than the original cost. To obtain performance information current to the most recent month-end, please call 1-800-625-7071. The returns shown in the above table and accompanying footnotes are net of expenses. The table above does not reflect the deduction of taxes that a shareholder would have paid on Fund distributions or on the redemption of Fund shares.

1. Investment results calculated after reinvestment of dividends.
2. The inception date of the Retail Class was 5/22/02.
3. The inception date of the Institutional Class was 12/30/16.
4. It is not possible to invest directly in an index. The performance of the index does not include the deduction of expenses associated with a mutual fund, such as investment management fees.
5. The S&P 500 Index is a broad unmanaged measure of the U.S. stock market.
6. The Russell 2000 Index is a broad unmanaged index composed of the smallest 2,000 companies in the Russell 3000 Index.
7. The return shown for the Index is from the Inception date of the Retail Class.

Top Ten Holdings* (Unaudited) (as a % of total investments, as of June 30, 2019)

<u>Security</u>		<u>% of Total</u> <u>Investments</u>
Photronics, Inc.	PLAB	10.15%
PDF Solutions, Inc.	PDFS	8.93%
Aspen Aerogels, Inc.	ASPN	7.99%
Zuora, Inc.	ZUO	5.69%
MACOM Technology Solutions Holdings, Inc.	MTSI	5.62%
Ultra Clean Holdings, Inc.	UCTT	5.38%
Cohu, Inc.	COHU	5.25%
TTM Technologies, Inc.	TTMI	4.73%
Navigator Holdings Ltd. (Marshall Islands)	NVGS	4.55%
EMCORE Corp.	EMKR	4.17%

Top Ten Holdings = 62.46% of Total Investments†

* Current portfolio holdings may not be indicative of future portfolio holdings.

† Percentage of total investments less cash.

Sector Weightings* (Unaudited) (as a % of net investments, as of June 30, 2019)

<u>Sector</u>	<u>Long*</u>	<u>(Short)⁽¹⁾</u>	<u>Total⁽¹⁾⁽²⁾</u>
Closed-End Funds	1.5%	—	1.5%
Energy	11.1%	—	11.1%
Health Care	3.3%	—	3.3%
Industrials	10.5%	—	10.5%
Information Technology	56.5%	—	56.5%
Technology			
Hardware & Equipment	0.0%	—	0.0%
Cash	17.1%	—	17.1%

* Current portfolio holdings may not be indicative of future portfolio holdings.

⁽¹⁾ Percentage of total investments includes all stocks, plus cash minus all short positions.

⁽²⁾ Total represents the difference between the long exposure and the short exposure, which produces the net exposure.

Disclosure of Fund Expenses (Unaudited)

The following expense table is shown so that you can understand the impact of fees on your investment. All mutual funds have operating expenses. As a shareholder of a Portfolio, you incur transactional costs, including redemption fees and ongoing costs, which include costs for portfolio management, administrative services, and shareholder reports, among others. A Portfolio's expenses are expressed as a percentage of its average net assets. This figure is known as the expense ratio. The following examples are intended to help you understand the ongoing costs (in dollars) of investing in each Portfolio and to compare these costs with those of other mutual funds. The examples are based on an investment of \$1,000 made at the beginning of a six-month period and held for the entire period. The expense example table below illustrates your fund's cost in two ways:

- **Actual Expenses.** This section helps you to estimate the actual expenses after fee waivers that you paid over the period. The "Ending Account Value" shown is derived from the Portfolio's actual return, and "Expenses Paid During Period" shows the dollar amount that would have been paid by an investor who started with \$1,000 in the Portfolio. You may use the information here, together with the amount you invested, to estimate the expenses that you paid over the period. To do so, simply divide your account value by \$1,000 (for example, an \$8,600 account value divided by \$1,000 = 8.6), then multiply the result by the number given for your Portfolio under the heading entitled "Expenses Paid During Period".
- **Hypothetical Expenses on a 5% Return.** This section is intended to help you compare your Portfolio's costs with those of other mutual funds. It assumes that the Portfolio had a return of 5% before expenses during the period shown, but that the expense ratio is unchanged. In this case, because the return used is not the Portfolio's actual return, the results do not apply to your investment. The example is useful in making comparisons because the Securities and Exchange Commission requires all mutual funds to calculate expenses based on a 5% return. You can assess your Portfolio's cost by comparing this hypothetical example with the hypothetical examples that appear in shareholders reports of other funds.

Please note that the expenses shown in the table are meant to highlight your ongoing costs only and do not reflect any transactional costs, such as redemption fees or exchange fees. Therefore, the table is useful in comparing ongoing costs only, and will not help you determine the relative total costs of owning different funds. In addition, if these transactional costs were included, your costs would have been higher.

For the Period January 1, 2019 to June 30, 2019

Expense Example Table (Unaudited)

	<i>Beginning Account Value 1/1/2019</i>	<i>Ending Account Value 6/30/2019</i>	<i>Expenses Paid During Period⁽¹⁾ 1/1/2019 – 6/30/2019</i>	<i>Expense Ratio During Period⁽¹⁾ 1/1/2019 – 6/30/2019</i>
Needham Growth Fund				
Retail Class Actual Expenses	\$1,000.00	\$1,254.50	\$11.24	2.01%
Retail Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,014.83	\$10.04	2.01%
Institutional Class Actual Expenses	\$1,000.00	\$1,258.30	\$ 8.18	1.46%
Institutional Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,017.55	\$ 7.30	1.46%
Needham Aggressive Growth Fund				
Retail Class Actual Expenses	\$1,000.00	\$1,223.00	\$11.41	2.07%
Retail Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,014.53	\$10.34	2.07%
Institutional Class Actual Expenses	\$1,000.00	\$1,226.60	\$ 8.39	1.52%
Institutional Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,017.26	\$ 7.60	1.52%
Needham Small Cap Growth Fund⁽²⁾				
Retail Class Actual Expenses	\$1,000.00	\$1,290.30	\$10.79	1.90%
Retail Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,015.37	\$ 9.49	1.90%
Institutional Class Actual Expenses	\$1,000.00	\$1,293.60	\$ 7.28	1.28%
Institutional Class Hypothetical Example for Comparison Purposes (5% return before expenses)	\$1,000.00	\$1,018.45	\$ 6.41	1.28%

⁽¹⁾ Expenses are equal to the average account value times the Portfolio's annualized expense ratio multiplied by 181/365 (to reflect the one-half-year period).

⁽²⁾ Effective April 1, 2019, the Adviser has agreed to waive its fee and, if necessary, reimburse the Needham Small Cap Growth Fund (the "Fund") until April 30, 2020 to the extent Total Annual Fund Operating Expenses exceed 1.85% and 1.18% of the average daily net assets of Retail Class shares and Institutional Class shares respectively, of the Fund.

Needham Growth Fund

Schedule of Investments

June 30, 2019 (Unaudited)

	Shares	Value
Common Stocks (94.7%)		
Aerospace & Defense (0.2%)		
Parsons Corp. (a)	4,750	\$ 175,085
Airlines (0.3%)		
Hawaiian Holdings, Inc.	9,500	260,585
Biotechnology (6.0%)		
Gilead Sciences, Inc.	86,000	5,810,160
Building Products (0.6%)		
DIRTT Environmental Solutions (Canada) (a)	100,000	568,898
Capital Markets (1.0%)		
Oaktree Capital Group – Class A	20,000	990,800
Commercial Services & Supplies (0.1%)		
Clean Harbors, Inc. (a)	1,500	106,650
Communications Equipment (7.2%)		
Cambium Networks Corp. (a)	1,360	13,042
KVH Industries, Inc. (a)	490,000	5,326,300
ViaSat, Inc. (a)(c)	19,500	1,575,990
		<u>6,915,332</u>
Electrical Equipment (1.0%)		
Vicor Corp. (a)	30,000	931,500
Electronic Equipment, Instruments & Components (5.0%)		
Corning, Inc.	35,000	1,163,050
FLIR Systems, Inc.	8,500	459,850
Frequency Electronics, Inc. (a)	26,000	296,140
IPG Photonics Corp. (a)	6,250	964,063
National Instruments Corp.	20,000	839,800
nLight, Inc. (a)	3,500	67,200
Vishay Intertechnology, Inc.	60,000	991,200
		<u>4,781,303</u>
Energy Equipment & Services (3.1%)		
Aspen Aerogels, Inc. (a)	367,650	2,621,345
Schlumberger, Ltd. (Netherlands)	10,000	397,400
		<u>3,018,745</u>

See accompanying notes to financial statements.

Needham Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Common Stocks – Continued		
Entertainment (0.7%)		
World Wrestling Entertainment, Inc. – Class A	9,500	\$ 685,995
Health Care Equipment & Supplies (8.5%)		
Becton Dickinson & Co.	20,000	5,040,200
CryoPort, Inc. (a)	57,500	1,053,400
Medtronic PLC (Ireland)	22,000	<u>2,142,580</u>
		<u>8,236,180</u>
Health Care Providers & Services (0.7%)		
Laboratory Corp of America Holdings (a)	2,000	345,800
Quest Diagnostics, Inc.	3,500	<u>356,335</u>
		<u>702,135</u>
Household Products (0.6%)		
Oil-Dri Corp. of America	17,000	<u>578,680</u>
Industrial Conglomerates (0.5%)		
Honeywell International, Inc.	2,500	<u>436,475</u>
Interactive Media & Services (0.0%)		
Eventbrite, Inc. – Class A (a)	1,000	<u>16,200</u>
IT Services (2.8%)		
Akamai Technologies, Inc. (a)(c)	34,000	<u>2,724,760</u>
Life Sciences Tools & Services (9.1%)		
Thermo Fisher Scientific, Inc. (c)	30,000	<u>8,810,400</u>
Machinery (0.8%)		
Wabtec Corp.	11,250	<u>807,300</u>
Media (5.0%)		
Comcast Corp. – Class A	115,000	<u>4,862,200</u>
Oil, Gas & Consumable Fuels (0.3%)		
Navigator Holdings, Ltd. (a)	33,000	<u>308,880</u>
Road & Rail (0.1%)		
Uber Technologies, Inc. (a)	1,321	<u>61,268</u>

See accompanying notes to financial statements.

Needham Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Common Stocks – Continued		
Semiconductors & Semiconductor Equipment (20.9%)		
Applied Materials, Inc.	9,000	\$ 404,190
Entegris, Inc.	130,000	4,851,600
FormFactor, Inc. (a)	162,500	2,546,375
Lam Research Corp.	2,500	469,600
MKS Instruments, Inc.	25,000	1,947,250
Nova Measuring Instruments, Ltd. (Israel) (a)	58,500	1,497,015
PDF Solutions, Inc. (a)	495,400	6,499,648
Photronics, Inc. (a)	150,000	1,230,000
Taiwan Semiconductor Manufacturing Co., Ltd. (Taiwan) – ADR	8,500	332,945
Ultra Clean Holdings, Inc. (a)	25,000	348,000
		<u>20,126,623</u>
Software (6.1%)		
The Trade Desk, Inc. – Class A (a)	5,300	1,207,234
2U, Inc. (a)	10,000	376,400
Altair Engineering, Inc. – Class A (a)	2,996	121,008
Appian Corp. (a)	10,000	360,700
ChannelAdvisor Corp. (a)	30,000	262,800
Coupa Software, Inc. (a)	4,800	607,728
Everbridge, Inc. (a)	10,000	894,200
Q2 Holdings, Inc. (a)	19,000	1,450,839
Zuora, Inc. – Class A (a)	40,000	612,800
		<u>5,893,709</u>
Specialty Retail (7.4%)		
CarMax, Inc. (a)(c)	82,500	7,163,475
Technology Hardware, Storage & Peripherals (4.5%)		
Apple, Inc.	2,700	534,384
Electronics for Imaging, Inc. (a)	40,000	1,476,400
Super Micro Computer, Inc. (a)	122,500	2,370,375
		<u>4,381,159</u>
Trading Companies & Distributors (2.2%)		
Air Lease Corp. – Class A	50,000	2,067,000
Total Common Stocks		
(Cost \$38,388,722)		<u>\$91,421,497</u>

See accompanying notes to financial statements.

Needham Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Short-Term Investments (5.0%)		
Money Market Fund (5.0%)		
Dreyfus Treasury Securities Cash Management – Institutional Class 2.10% (b)		
Total Short-Term Investments		
(Cost \$4,843,383)	4,843,383	<u>\$ 4,843,383</u>
Total Investments (99.7%)		
(Cost \$43,232,105)		96,264,880
Total Securities Sold Short (-1.7%)		(1,664,370)
(Proceeds \$338,383)		
Other Assets in Excess of Liabilities (2.0%)		1,951,424
Net Assets (100.0%)		<u><u>\$96,551,934</u></u>

Percentages are stated as a percent of net assets.

Industry classifications may be different than those used for compliance monitoring purposes.

(a) *Non-income producing security.*

(b) *Rate shown is the seven-day yield as of June 30, 2019.*

(c) *Security position is either entirely or partially held in a segregated account as collateral for securities sold short, aggregating a total market value of \$2,724,440.*

ADR *American Depositary Receipt*

See accompanying notes to financial statements.

Needham Funds

Needham Growth Fund

Schedule of Securities Sold Short

June 30, 2019 (Unaudited)

	<i>Shares</i>	<i>Value</i>
Securities Sold Short (-1.7%)		
Communications Equipment (-1.2%)		
Ubiquiti Networks, Inc.	9,000	<u>\$ 1,183,500</u>
Consumer Finance (-0.5%)		
Medallion Financial Corp. (a)	67,500	<u>454,950</u>
Insurance (0.0%)		
Health Insurance Innovations, Inc. – Class A (a)	1,000	<u>25,920</u>
Total Securities Sold Short (-1.7%)		
(Proceeds \$338,383)		<u><u>\$1,664,370</u></u>

(a) *Non-income producing security.*

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Schedule of Investments

June 30, 2019 (Unaudited)

	Shares	Value
Common Stocks (97.2%)		
Aerospace & Defense (0.2%)		
Parsons Corp. (a)	2,350	\$ 86,621
Airlines (0.2%)		
Hawaiian Holdings, Inc.	2,500	68,575
Building Products (4.4%)		
Alpha Pro Tech, Ltd. (a)	60,544	206,455
DIRTT Environmental Solutions (Canada) (a)	312,500	1,777,805
Jewett-Cameron Trading Co., Ltd. (Canada) (a)	4,000	33,200
		<u>2,017,460</u>
Commercial Services & Supplies (0.7%)		
Ecology and Environment, Inc. – Class A	29,972	326,695
Communications Equipment (8.8%)		
Cambium Networks Corp. (a)	635	6,090
KVH Industries, Inc. (a)	369,400	4,015,378
		<u>4,021,468</u>
Construction Materials (0.4%)		
Smith-Midland Corp.	20,000	176,000
Electrical Equipment (4.3%)		
Vicor Corp. (a)	63,500	1,971,675
Electronic Equipment, Instruments & Components (3.8%)		
IPG Photonics Corp. (a)	7,000	1,079,750
National Instruments Corp.	7,000	293,930
nLight, Inc. (a)	1,523	29,242
Vishay Precision Group, Inc. (a)	7,500	304,725
		<u>1,707,647</u>
Energy Equipment & Services (1.9%)		
Aspen Aerogels, Inc. (a)	122,050	870,216
Entertainment (0.7%)		
World Wrestling Entertainment, Inc. – Class A	4,500	324,945

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	<i>Shares</i>	<i>Value</i>
Common Stocks – Continued		
Health Care Equipment & Supplies (2.8%)		
CryoPort, Inc. (a)	35,000	\$ 641,200
LeMaitre Vascular, Inc.	22,500	<u>629,550</u>
		<u>1,270,750</u>
Health Care Providers & Services (0.6%)		
Laboratory Corp. of America Holdings (a)	500	86,450
Quest Diagnostics, Inc.	1,750	<u>178,167</u>
		<u>264,617</u>
Health Care Technology (0.6%)		
Omnice ll, Inc. (a)	3,000	<u>258,090</u>
Household Durables (0.0%)		
iRobot Corp. (a)	200	<u>18,328</u>
Household Products (3.2%)		
Oil-Dri Corp. of America	43,000	<u>1,463,720</u>
Interactive Media & Services (0.1%)		
Eventbrite, Inc. – Class A (a)	1,500	<u>24,300</u>
IT Services (4.1%)		
Akamai Technologies, Inc. (a)(c)	23,500	<u>1,883,290</u>
Life Sciences Tools & Services (0.1%)		
Bruker Corp.	500	<u>24,975</u>
Machinery (1.1%)		
Wabtec Corp.	7,000	<u>502,320</u>
Professional Services (0.4%)		
CRA International, Inc.	5,000	<u>191,650</u>
Real Estate Investment Trusts (REITs) (2.2%)		
Equinix, Inc.	2,000	<u>1,008,580</u>
Road & Rail (0.1%)		
Uber Technologies, Inc. (a)	649	<u>30,101</u>

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Common Stocks – Continued		
Semiconductors & Semiconductor Equipment (30.8%) (d)		
Entegris, Inc.	120,000	\$ 4,478,400
FormFactor, Inc. (a)	30,000	470,100
MKS Instruments, Inc.	23,000	1,791,470
Nova Measuring Instruments, Ltd. (Israel) (a)(c)	63,000	1,612,170
PDF Solutions, Inc. (a)(c)	365,500	4,795,360
Photronics, Inc. (a)	70,000	574,000
Taiwan Semiconductor Manufacturing Co., Ltd. (Taiwan) – ADR	7,000	274,190
Ultra Clean Holdings, Inc. (a)	2,000	27,840
		<u>14,023,530</u>
Software (9.7%)		
The Trade Desk, Inc. – Class A (a)	1,300	296,114
Altair Engineering, Inc. – Class A (a)	1,000	40,390
Appian Corp. (a)	2,500	90,175
Carbon Black, Inc. (a)	1,500	25,080
ChannelAdvisor Corp. (a)	5,000	43,800
Coupa Software, Inc. (a)	1,200	151,932
Everbridge, Inc. (a)	4,000	357,680
GSE Systems, Inc. (a)(e)	1,120,000	2,620,800
Pluralsight, Inc. – Class A (a)	1,000	30,320
Q2 Holdings, Inc. (a)	9,000	687,240
Zuora, Inc. – Class A (a)	4,381	67,117
		<u>4,410,648</u>
Specialty Retail (3.9%)		
CarMax, Inc. (a)(c)	20,500	<u>1,780,015</u>
Technology Hardware, Storage & Peripherals (11.8%)		
Apple, Inc. (c)	20,000	3,958,400
Electronics for Imaging, Inc. (a)	4,500	166,095
Super Micro Computer, Inc. (a)	65,000	1,257,750
		<u>5,382,245</u>
Trading Companies & Distributors (0.3%)		
Air Lease Corp. – Class A	3,000	<u>124,021</u>
Total Common Stocks		
(Cost \$21,119,446)		<u>\$44,232,482</u>

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Short-Term Investments (3.4%)		
Money Market Fund (3.4%)		
Dreyfus Treasury Securities Cash Management – Institutional Class 2.10% (b)		
Total Short-Term Investments		
(Cost \$1,555,026)	1,555,026	<u>\$ 1,555,026</u>
Total Investments (100.6%)		
(Cost \$22,674,472)		45,787,508
Total Securities Sold Short (-1.6%)		(740,570)
(Proceeds \$171,827)		
Other Assets in Excess of Liabilities (1.0%)		479,909
Net Assets (100.0%)		<u><u>\$45,526,847</u></u>

Percentages are stated as a percent of net assets.

Industry classifications may be different than those used for compliance monitoring purposes.

- (a) Non-income producing security.
- (b) Rate shown is the seven-day yield as of June 30, 2019.
- (c) Security position is either entirely or partially held in a segregated account as collateral for securities sold short, aggregating a total market value of \$3,736,510
- (d) As of June 30, 2019, the Fund had a significant portion of its assets invested in the Semiconductors & Semiconductor Equipment industry.
- (e) Affiliated security. Please refer to Note 11 of the Financial Statements.

ADR American Depositary Receipt

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Schedule of Securities Sold Short

June 30, 2019 (Unaudited)

	<i>Shares</i>	<i>Value</i>
Securities Sold Short (-1.6%)		
Communications Equipment (-0.9%)		
Ubiquiti Networks, Inc.	3,000	<u>\$ 394,500</u>
Consumer Finance (-0.7%)		
Medallion Financial Corp. (a)	47,500	<u>320,150</u>
Insurance (0.0%)		
Health Insurance Innovations, Inc. – Class A (a)	1,000	<u>25,920</u>
Total Securities Sold Short (-1.6%)		
(Proceeds \$171,827)		<u>\$740,570</u>

*(a) Non-income producing security.**See accompanying notes to financial statements.*

Needham Small Cap Growth Fund

Schedule of Investments

June 30, 2019 (Unaudited)

	<i>Shares</i>	<i>Value</i>
Common Stocks (84.8%)		
Airlines (3.3%)		
Hawaiian Holdings, Inc.	45,000	\$ <u>1,234,350</u>
Biotechnology (0.8%)		
Moderna, Inc. (a)	20,000	<u>292,800</u>
Building Products (0.6%)		
DIRTT Environmental Solutions (Canada) (a)	40,000	<u>227,559</u>
Communications Equipment (6.2%)		
Cambium Networks Corp. (a)	517	4,958
Emcore Corp. (a)	410,000	1,348,900
KVH Industries, Inc. (a)(b)	91,000	<u>989,170</u>
		<u>2,343,028</u>
Electrical Equipment (2.5%)		
Vicor Corp. (a)	30,000	<u>931,500</u>
Electronic Equipment, Instruments & Components (7.4%)		
Akoustis Technologies, Inc. (a)	120,000	768,000
Frequency Electronics, Inc. (a)	42,500	484,075
TTM Technologies, Inc. (a)	150,000	<u>1,530,000</u>
		<u>2,782,075</u>
Energy Equipment & Services (7.6%)		
Aspen Aerogels, Inc. (a)	362,500	2,584,625
Core Laboratories NV (Netherlands)	2,000	104,560
Schlumberger, Ltd. (Netherlands)	4,000	<u>158,960</u>
		<u>2,848,145</u>
Health Care Equipment & Supplies (2.3%)		
CryoPort, Inc. (a)	15,000	274,800
GenMark Diagnostics, Inc. (a)	90,000	<u>584,100</u>
		<u>858,900</u>
Machinery (1.2%)		
Wabtec Corp.	6,000	<u>430,560</u>
Oil, Gas & Consumable Fuels (3.9%)		
Navigator Holdings, Ltd. (a)	157,300	<u>1,472,328</u>

See accompanying notes to financial statements.

Needham Small Cap Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	<i>Shares</i>	<i>Value</i>
Common Stocks – Continued		
Pharmaceuticals (0.4%)		
Agile Therapeutics, Inc. (a)	95,000	\$ 138,700
Road & Rail (0.1%)		
Uber Technologies, Inc. (a)	514	23,839
Semiconductors & Semiconductor Equipment (32.8%) (d)		
Aquantia Corp. (a)	5,000	65,150
Cohu, Inc.	110,000	1,697,300
FormFactor, Inc. (a)	500	7,835
MACOM Technology Solutions Holdings, Inc. (a)	120,000	1,815,600
MKS Instruments, Inc.	10,000	778,900
PDF Solutions, Inc. (a)(b)	220,000	2,886,400
Photronics, Inc. (a)	400,000	3,280,000
Ultra Clean Holdings, Inc. (a)	125,000	1,740,000
		<u>12,271,185</u>
Software (9.4%)		
2U, Inc. (a)	10,000	376,400
Appian Corp. (a)	4,500	162,315
ChannelAdvisor Corp. (a)	60,000	525,600
Everbridge, Inc. (a)	2,000	178,840
FireEye, Inc. (a)	30,000	444,300
Zuora, Inc. (a)	120,000	1,838,400
		<u>3,525,855</u>
Technology Hardware, Storage & Peripherals (3.0%)		
Intevac, Inc. (a)	200,000	968,000
Super Micro Computer, Inc. (a)(b)	7,500	145,124
		<u>1,113,124</u>
Trading Companies & Distributors (3.3%)		
Air Lease Corp.	30,000	1,240,200
Total Common Stocks		
(Cost \$29,050,664)		<u>\$31,734,148</u>

See accompanying notes to financial statements.

Needham Small Cap Growth Fund

Schedule of Investments (Continued)

June 30, 2019 (Unaudited)

	Shares	Value
Closed-End Funds (1.6%)		
Tekla Healthcare Investors	15,000	\$ 301,200
Tekla Life Sciences Investors	17,500	<u>294,875</u>
Total Closed-End Funds		
(Cost \$688,095)		<u>\$ 596,075</u>
Short-Term Investments (17.8%)		
Money Market Fund (17.8%)		
Dreyfus Treasury Securities Cash Management – Institutional Class 2.10% (c)		
Total Short-Term Investments		
(Cost \$6,652,941)	6,652,941	<u>\$ 6,652,941</u>
Total Investments (104.2%)		
(Cost \$36,391,700)		38,983,164
Liabilities in Excess of Other Assets (-4.2%)		<u>(1,578,231)</u>
Net Assets (100.0%)		<u><u>\$37,404,933</u></u>

Percentages are stated as a percent of net assets.

Industry classifications may be different than those used for compliance monitoring purposes.

- (a) Non-income producing security.
- (b) Security position is either entirely or partially held in a segregated account as collateral for securities sold short, aggregating a total market value of \$1,235,925.
- (c) Rate shown is the seven-day yield as of June 30, 2019.
- (d) As of June 30, 2019, the Fund had a significant portion of its assets invested in the Semiconductors & Semiconductor Equipment industry.

See accompanying notes to financial statements.

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Statements of Assets and Liabilities
June 30, 2019 (Unaudited)

	Needham Growth Fund	Needham Aggressive Growth Fund	Needham Small Cap Growth Fund
Assets			
Investments, at value:			
Unaffiliated securities, (Cost \$43,232,105, \$20,395,354, \$36,391,700)	\$96,264,880	\$43,166,708	\$38,983,164
Affiliated securities (Cost \$—, \$2,279,118, \$—)	—	2,620,800	—
Cash	—	—	22,800
Receivables:			
Deposit with Broker for Securities Sold Short	1,898,635	788,742	—
Dividends and Interest	37,573	11,310	29,365
Fund Shares Sold	65	88	11,154
Investment Securities Sold	265,267	38,439	224,488
Prepaid Expenses	37,633	16,571	49,775
Total Assets	98,504,053	46,642,658	39,320,746
Liabilities			
Securities Sold Short, at Value (Proceeds \$338,383, \$171,827, \$—)	1,664,370	740,570	—
Payables:			
Investment Securities Purchased	104,936	101,056	1,837,571
Fund Shares Redeemed	—	172,456	2,940
Due to Adviser	88,537	34,418	27,321
Custodian Fees	2,261	2,938	2,799
Distribution Fees	12,675	5,981	3,784
Administration and Accounting Fees	32,099	17,987	12,521
Transfer Agent Fees	12,878	12,975	9,270
Accrued Expenses and Other Liabilities	34,363	27,430	19,607
Total Liabilities	1,952,119	1,115,809	1,915,813
Total Net Assets	\$96,551,934	\$45,526,847	\$37,404,933

See accompanying notes to financial statements.

Statements of Assets and Liabilities (Continued)

June 30, 2019 (Unaudited)

	Needham Growth Fund	Needham Aggressive Growth Fund	Needham Small Cap Growth Fund
Retail Class Shares			
Net Assets	\$60,589,700	\$28,574,008	\$17,851,606
Shares Issued and Outstanding \$0.001 Par Value (Authorized 800,000,000, 100,000,000 and 100,000,000 respectively)	1,461,301	1,385,801	1,115,610
Net Asset Value and Offering Price Per Share	\$ 41.46	\$ 20.62	\$ 16.00
Institutional Class Shares			
Net Assets	\$35,962,234	\$16,952,839	\$19,553,327
Shares Issued and Outstanding \$0.001 Par Value (Authorized 800,000,000, 100,000,000 and 100,000,000 respectively)	854,380	809,134	1,202,371
Net Asset Value and Offering Price Per Share	\$ 42.09	\$ 20.95	\$ 16.26
Components of Net Assets			
Paid in Capital	31,664,675	18,901,346	32,240,957
Distributable Earnings	64,887,259	26,625,501	5,163,976
Total Net Assets	\$96,551,934	\$45,526,847	\$37,404,933

See accompanying notes to financial statements.

Statements of Operations
For the period ended June 30, 2019 (Unaudited)

	Needham Growth Fund	Needham Aggressive Growth Fund	Needham Small Cap Growth Fund
Investment Income			
Dividend Income from unaffiliated securities (net of foreign withholding tax of \$165, \$1,875, \$0)	\$ 319,427	\$ 116,097	\$ 78,671
Interest Income	9,766	2,966	50,229
Total Investment Income	329,193	119,063	128,900
Expenses			
Investment Advisory Fees	568,606	277,337	205,456
Distribution Fees	72,678	35,662	20,043
Administration and Accounting Fees	59,293	35,072	24,211
Audit Fees	21,139	15,026	15,025
Chief Compliance Officer Fees	10,065	5,338	3,130
Custodian Fees	6,454	6,376	4,341
Directors' Fees	8,647	4,430	2,774
Dividend Expense ⁽¹⁾	13,375	5,687	500
Registration Fees	14,857	21,080	14,359
Interest Expense ⁽¹⁾	14,434	19,034	180
Legal Fees	33,707	23,095	8,069
Printing Fees	3,206	2,603	1,502
Transfer Agent Fees	9,766	20,993	13,153
Other Expenses	39,417	10,268	5,840
Total Expenses	875,644	482,001	318,583
Fees Waived by Investment Adviser	(50,451)	(66,535)	(58,036)
Net Expenses	825,193	415,466	260,547
Net Investment Loss	(496,000)	(296,403)	(131,647)
Net Realized / Unrealized Gain (Loss) from Affiliated and Unaffiliated Securities, Securities Sold Short, Foreign Currency Translations (Note 3)			
Net Realized Gain from Unaffiliated Securities	10,664,562	5,507,497	2,849,672
Net Realized Loss from Securities Sold Short	(4,757,398)	(2,650,184)	—
Change in Unrealized Appreciation on Unaffiliated Securities and Securities Sold Short	15,242,447	6,038,654	4,936,149
Change in Unrealized Appreciation on Affiliated Securities	—	268,800	—
Net Realized / Unrealized Gain (Loss) from Affiliated and Unaffiliated Securities, Securities Sold Short, Foreign Currency Translations (Note 3)			
	21,149,611	9,164,767	7,785,821
Change in Net Assets Resulting from Operations	\$20,653,611	\$ 8,868,364	\$7,654,174

⁽¹⁾ Expense related to securities sold short.

See accompanying notes to financial statements.

Needham Growth Fund

Statements of Changes in Net Assets

	<i>Period Ended June 30, 2019 (Unaudited)</i>	<i>Year Ended December 31, 2018</i>
Change in Net Assets		
Operations:		
Net Investment Loss	\$ (496,000)	\$ (1,955,502)
Net Realized Gain from Securities, Securities Sold Short, Foreign Currency Transactions, and Currency	5,907,164	13,196,649
Net Change in Unrealized Appreciation (Depreciation) on Investments, Securities Sold Short, Foreign Currency Translations	15,242,447	(20,652,199)
Change in Net Assets Resulting from Operations	20,653,611	(9,411,052)
Distributions to Shareholders from:		
Distributable Earnings	—	(13,467,264)
Capital Transactions:		
Retail Class:		
Shares Issued	156,724	819,983
Shares Issued in Reinvestment of Distribution	—	8,154,389
Shares Exchanged for Institutional Class Shares	(577,409)	(3,993,084)
Shares Redeemed	(6,387,995)	(14,136,166)
Institutional Class:		
Shares Issued	723,663	849,415
Shares Issued in Reinvestment of Distribution	—	4,391,658
Shares Issued in Exchange for Retail Class Shares	577,409	3,993,084
Shares Redeemed	(1,987,806)	(4,297,069)
Total Change in Net Assets from Capital Transactions	(7,495,414)	(4,217,790)
Change in Net Assets	13,158,197	(27,096,106)
Total Net Assets		
Beginning of Period/Year	83,393,737	110,489,843
End of Period/Year	\$ 96,551,934	\$ 83,393,737
Share Transaction:		
Retail Class:		
Number of Shares Issued	4,204	19,432
Number of Shares Reinvested	—	228,927
Number of Shares Exchanged for Institutional Class Shares	(15,616)	(88,717)
Number of Shares Redeemed	(168,930)	(336,013)
Change in Retail Class Shares	(180,342)	(176,371)
Institutional Class:		
Number of Shares Issued	18,542	20,085
Number of Shares Reinvested	—	121,889
Number of Shares Issued in Exchange for Retail Class Shares	15,405	88,007
Number of Shares Redeemed	(50,936)	(111,309)
Change in Institutional Class Shares	(16,989)	118,672
Total Change in Shares	(197,331)	(57,699)

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Statements of Changes in Net Assets

	<i>Period Ended June 30, 2019 (Unaudited)</i>	<i>Year Ended December 31, 2018</i>
Change in Net Assets		
Operations:		
Net Investment Loss	\$ (296,403)	\$ (1,231,378)
Net Realized Gain from Securities, Securities Sold Short, Foreign Currency Transactions, and Currency	2,857,313	8,651,884
Net Change in Unrealized Appreciation (Depreciation) on Investments, Securities Sold Short, Foreign Currency Translations	6,307,454	(15,384,172)
Change in Net Assets Resulting from Operations	8,868,364	(7,963,666)
Distributions to Shareholders from:		
Distributable Earnings	—	(6,200,868)
Capital Transactions:		
Retail Class:		
Shares Issued	477,139	1,299,673
Shares Issued in Reinvestment of Distribution	—	4,037,862
Shares Exchanged for Institutional Class Shares	(632,852)	(1,302,417)
Shares Redeemed	(4,140,551)	(8,767,504)
Institutional Class:		
Shares Issued	558,945	2,354,427
Shares Issued in Reinvestment of Distribution	—	2,069,912
Shares Issued in Exchange for Retail Class Shares	632,852	1,302,417
Shares Redeemed	(834,463)	(7,780,135)
Total Change in Net Assets from Capital Transactions	(3,938,930)	(6,785,765)
Change in Net Assets	4,929,434	(20,950,299)
Total Net Assets		
Beginning of Period/Year	40,597,413	61,547,712
End of Period/Year	\$ 45,526,847	\$ 40,597,413
Share Transaction:		
Retail Class:		
Number of Shares Issued	23,885	56,865
Number of Shares Reinvested	—	219,927
Number of Shares Exchanged for Institutional Class Shares	(34,073)	(55,934)
Number of Shares Redeemed	(212,560)	(393,860)
Change in Retail Class Shares	(222,748)	(173,002)
Institutional Class:		
Number of Shares Issued	28,175	103,957
Number of Shares Reinvested	—	111,345
Number of Shares Issued in Exchange for Retail Class Shares	33,610	52,355
Number of Shares Redeemed	(41,552)	(359,268)
Change in Institutional Class Shares	20,233	(91,611)
Total Change in Shares	(202,515)	(264,613)

See accompanying notes to financial statements.

Needham Small Cap Growth Fund

Statements of Changes in Net Assets

	<i>Period Ended June 30, 2019 (Unaudited)</i>	<i>Year Ended December 31, 2018</i>
Change in Net Assets		
Operations:		
Net Investment Loss	\$ (131,647)	\$ (308,285)
Net Realized Gain from Securities, Securities Sold Short, Foreign Currency Transactions, and Currency	2,849,672	5,382,884
Net Change in Unrealized Appreciation (Depreciation) on Investments, Securities Sold Short, Foreign Currency Translations	4,936,149	(6,218,661)
Change in Net Assets Resulting from Operations	7,654,174	(1,144,062)
Distributions to Shareholders from:		
Distributable Earnings	—	(5,214,199)
Capital Transactions:		
Retail Class:		
Shares Issued	3,952,014	2,080,595
Shares Issued in Reinvestment of Distribution	—	2,958,778
Shares Exchanged for Institutional Class Shares	(43,184)	(513,300)
Shares Redeemed	(2,232,584)	(7,736,681)
Redemption Fees	—	82
Institutional Class:		
Shares Issued	4,149,668	4,684,908
Shares Issued in Reinvestment of Distribution	—	2,178,089
Shares Issued in Exchange for Retail Class Shares	43,184	513,300
Shares Redeemed	(772,843)	(2,795,178)
Total Change in Net Assets from Capital Transactions	5,096,255	1,370,593
Change in Net Assets	12,750,429	(4,987,668)
Total Net Assets		
Beginning of Period/Year	24,654,504	29,642,172
End of Period/Year	\$37,404,933	\$24,654,504
Share Transaction:		
Retail Class:		
Number of Shares Issued	264,739	129,771
Number of Shares Reinvested	—	213,939
Number of Shares Exchanged for Institutional Class Shares	(2,760)	(31,379)
Number of Shares Redeemed	(153,075)	(538,198)
Change in Retail Class Shares	108,904	(225,867)
Institutional Class:		
Number of Shares Issued	280,583	321,658
Number of Shares Reinvested	—	155,578
Number of Shares Issued in Exchange for Retail Class Shares	2,718	31,112
Number of Shares Redeemed	(49,177)	(195,266)
Change in Institutional Class Shares	234,124	313,082
Total Change in Shares	343,028	87,215

See accompanying notes to financial statements.

Needham Growth Fund

Financial Highlights

<i>(For a Share Outstanding Throughout each Period/Year)</i>	Retail Class					
	<i>Six Months Ended</i>	<i>Year Ended December 31,</i>				
	<i>June 30, 2019</i>	<i>2018</i>	<i>2017</i>	<i>2016</i>	<i>2015</i>	<i>2014</i>
	<i>(Unaudited)</i>					
Net Asset Value, Beginning of Period/Year	\$33.04	\$42.91	\$43.40	\$40.96	\$46.00	\$45.06
Investment Operations						
Net Investment Income (Loss)	(0.24)	(0.88)	(0.78)	(0.59)	(0.68)	0.58
Net Realized and Unrealized Gain (Loss) on Investments	8.66	(3.11)	4.45	4.86	(1.60)	4.59
Total from Investment Operations	8.42	(3.99)	3.67	4.27	(2.28)	4.01
Less Distributions						
Net Realized Gains	—	(5.88)	(4.16)	(1.83)	(2.76)	(3.07)
Total Distributions	—	(5.88)	(4.16)	(1.83)	(2.76)	(3.07)
Capital Contributions						
Redemption Fees	—	—	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾
Total Capital Contributions	—	—	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾
Net Asset Value, End of Period/Year	\$41.46	\$33.04	\$42.91	\$43.40	\$40.96	\$46.00
Total Return	25.45%⁽³⁾	(10.26)%	8.32%	10.57%	(5.07)%	8.98%
Net Assets, End of Period/Year (000's)	\$60,590	\$54,245	\$78,014	\$119,117	\$127,154	\$147,816
Ratios/Supplemental Data						
Ratio of Net Expenses to Average Net Assets	2.01% ⁽²⁾	2.76%	2.34%	2.17%	2.05%	1.84%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.95% ⁽²⁾	1.92%	1.90%	1.84%	1.82%	1.80%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	2.02% ⁽²⁾	2.76%	2.34%	2.17%	2.05%	1.84%
Ratio of Net Investment Income (Loss) to Average Net Assets	(1.29)% ⁽²⁾	(2.07)%	(1.73)%	(1.36)%	(1.48)%	(1.32)%
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.30)% ⁽²⁾	(2.07)%	(1.73)%	(1.36)%	(1.48)%	(1.32)%
Portfolio turnover rate	3% ⁽³⁾	8%	9%	12%	13%	12%

⁽¹⁾ Value is less than \$0.005 per share.

⁽²⁾ Annualized for periods less than one year.

⁽³⁾ Not annualized for periods less than one year.

See accompanying notes to financial statements.

Needham Growth Fund

Financial Highlights

	Institutional Class			Period from December 30, 2016 through December 31, 2016 ⁽¹⁾
	Six Months Ended June 30, 2019 (Unaudited)	Year Ended December 31, 2018	Year Ended December 31, 2017	
<i>(For a Share Outstanding Throughout each Period/Year)</i>				
Net Asset Value, Beginning of Period/Year	\$33.45	\$43.15	\$43.40	\$43.40
Investment Operations				
Net Investment Loss	(0.14)	(0.65)	(0.56)	—
Net Realized and Unrealized Gain (Loss) on Investments	8.78	(3.17)	4.47	—
Total from Investment Operations	8.64	(3.82)	3.91	—
Less Distributions				
Net Realized Gains	—	(5.88)	(4.16)	—
Total Distributions	—	(5.88)	(4.16)	—
Net Asset Value, End of Period/Year	\$42.09	\$33.45	\$43.15	\$43.40
Total Return	25.83% ⁽⁴⁾	(9.83)%	8.89%	0.00%
Net Assets, End of Period/Year (000's)	\$35,962	\$29,149	\$32,476	\$117
Ratios/Supplemental Data				
Ratio of Net Expenses to Average Net Assets	1.46% ⁽³⁾	2.21%	1.90%	1.40%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.40% ⁽³⁾	1.40%	1.40%	1.40%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	1.75% ⁽³⁾	2.48%	2.15%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets	(0.73)% ⁽³⁾	(1.52)%	(1.24)%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.02)% ⁽³⁾	(1.79)%	(1.49)%	—% ⁽²⁾
Portfolio turnover rate	3% ⁽⁴⁾	8%	9%	0%

⁽¹⁾ The Class commenced operations on December 30, 2016.

⁽²⁾ Refer to Note 2 for further description of non-recurring charges related to the issuance of the share class.

⁽³⁾ Annualized for periods less than one year.

⁽⁴⁾ Not annualized for periods less than one year.

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Financial Highlights

<i>(For a Share Outstanding Throughout each Period/Year)</i>	Retail Class					
	<i>Six Months Ended</i>	<i>Year Ended December 31,</i>				
	<i>June 30, 2019</i>	<i>2018</i>	<i>2017</i>	<i>2016</i>	<i>2015</i>	<i>2014</i>
	<i>(Unaudited)</i>					
Net Asset Value, Beginning of Period/Year	\$16.86	\$23.07	\$22.29	\$19.56	\$23.55	\$22.66
Investment Operations						
Net Investment Loss	(0.15)	(0.54)	(0.49)	(0.38)	(0.39)	(0.38)
Net Realized and Unrealized Gain (Loss) on Investments	3.91	(2.88)	2.46	4.61	(1.28)	1.98
Total from Investment Operations	3.76	(3.42)	1.97	4.23	(1.67)	1.60
Less Distributions						
Net Realized Gains	—	(2.79)	(1.19)	(1.50)	(2.32)	(0.71)
Total Distributions	—	(2.79)	(1.19)	(1.50)	(2.32)	(0.71)
Capital Contributions						
Redemption Fees	—	—	—(1)	—(1)	—(1)	—(1)
Total Capital Contributions	—	—	—(1)	—(1)	—(1)	—(1)
Net Asset Value, End of Period/Year	\$20.62	\$16.86	\$23.07	\$22.29	\$19.56	\$23.55
Total Return	22.30% ⁽³⁾	(15.80)%	8.73%	22.18%	(7.05)%	7.13%
Net Assets, End of Period/Year (000's)	\$28,574	\$27,119	\$41,107	\$58,696	\$50,906	\$62,353
Ratios/Supplemental Data						
Ratio of Net Expenses to Average Net Assets	2.07% ⁽²⁾	2.91%	2.63%	2.71%	2.41%	2.09%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.95% ⁽²⁾	1.95%	1.95%	1.95%	1.93%	1.91%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	2.25% ⁽²⁾	2.97%	2.65%	2.72%	2.42%	2.09%
Ratio of Net Investment Loss to Average Net Assets	(1.53)% ⁽²⁾	(2.40)%	(2.12)%	(1.99)%	(1.73)%	(1.60)%
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.71)% ⁽²⁾	(2.46)%	(2.14)%	(2.00)%	(1.74)%	(1.60)%
Portfolio turnover rate	3% ⁽³⁾	8%	15%	14%	15%	19%

(1) Value is less than \$0.005 per share.

(2) Annualized for periods less than one year.

(3) Not annualized for periods less than one year.

See accompanying notes to financial statements.

Needham Aggressive Growth Fund

Financial Highlights

	Institutional Class			
	Six Months Ended June 30, 2019 (Unaudited)	Year Ended December 31, 2018	Year Ended December 31, 2017	Period from December 30, 2016 through December 31, 2016 ⁽¹⁾
<i>(For a Share Outstanding Throughout each Period/Year)</i>				
Net Asset Value, Beginning of Period/Year	\$17.08	\$23.21	\$22.29	\$22.29
Investment Operations				
Net Investment Loss	(0.10)	(0.42)	(0.39)	—
Net Realized and Unrealized Gain (Loss) on Investments	3.97	(2.92)	2.50	—
Total from Investment Operations	3.87	(3.34)	2.11	—
Less Distributions				
Net Realized Gains	—	(2.79)	(1.19)	—
Total Distributions	—	(2.79)	(1.19)	—
Net Asset Value, End of Period/Year	\$20.95	\$17.08	\$23.21	\$22.29
Total Return	22.66% ⁽⁴⁾	(15.36)%	9.36%	0.00%
Net Assets, End of Period/Year (000's)	\$16,953	\$13,478	\$20,441	\$162
Ratios/Supplemental Data				
Ratio of Net Expenses to Average Net Assets	1.52% ⁽³⁾	2.35%	2.22%	1.40%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.40% ⁽³⁾	1.40%	1.40%	1.40%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	2.03% ⁽³⁾	2.79%	2.64%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets	(0.98)% ⁽³⁾	(1.84)%	(1.69)%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.50)% ⁽³⁾	(2.28)%	(2.11)%	—% ⁽²⁾
Portfolio turnover rate	3% ⁽⁴⁾	8%	15%	0%

⁽¹⁾ The Class commenced operations on December 30, 2016.

⁽²⁾ Refer to Note 2 for further description of non-recurring charges related to the issuance of the share class.

⁽³⁾ Annualized for periods less than one year.

⁽⁴⁾ Not annualized for periods less than one year.

See accompanying notes to financial statements.

Needham Small Cap Growth Fund

Financial Highlights

<i>(For a Share Outstanding Throughout each Period/Year)</i>	Retail Class					
	<i>Six Months Ended</i>	<i>Year Ended December 31,</i>				
	<i>June 30, 2019</i>	<i>2018</i>	<i>2017</i>	<i>2016</i>	<i>2015</i>	<i>2014</i>
Net Asset Value, Beginning of Period/Year	\$12.40	\$15.67	\$15.25	\$12.44	\$14.01	\$15.63
Investment Operations						
Net Investment Loss	(0.08)	(0.19)	(0.18)	(0.20)	(0.24)	(0.24)
Net Realized and Unrealized Gain (Loss) on Investments	3.68	(0.32)	1.99	4.03	(1.02)	0.32
Total from Investment Operations	3.60	(0.51)	1.81	3.83	(1.26)	0.08
Less Distributions						
Net Realized Gains	—	(2.76)	(1.40)	(1.02)	(0.31)	(1.70)
Total Distributions	—	(2.76)	(1.40)	(1.02)	(0.31)	(1.70)
Capital Contributions						
Redemption Fees	—	— ⁽¹⁾	0.01	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾
Total Capital Contributions	—	— ⁽¹⁾	0.01	— ⁽¹⁾	— ⁽¹⁾	— ⁽¹⁾
Net Asset Value, End of Period/Year	\$16.00	\$12.40	\$15.67	\$15.25	\$12.44	\$14.01
Total Return	29.03%⁽³⁾	(5.07)%	11.81%	31.26%	(8.96)%	0.80%
Net Assets, End of Period/Year (000's)	\$17,852	\$12,487	\$19,317	\$35,518	\$23,473	\$32,116
Ratios/Supplemental Data						
Ratio of Net Expenses to Average Net Assets	1.90% ⁽²⁾	1.95%	1.95%	2.09%	2.05%	2.01%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.90% ⁽²⁾⁽⁴⁾	1.95%	1.95%	1.95%	1.95%	1.95%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	2.08% ⁽²⁾	2.19%	2.15%	2.30%	2.25%	2.11%
Ratio of Net Investment Loss to Average Net Assets	(1.12)% ⁽²⁾	(1.20)%	(1.14)%	(1.83)%	(1.61)%	(1.49)%
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.30)% ⁽²⁾	(1.44)%	(1.34)%	(2.04)%	(1.81)%	(1.59)%
Portfolio turnover rate	77% ⁽³⁾	103%	80%	99%	64%	69%

⁽¹⁾ Value is less than \$0.005 per share.

⁽²⁾ Annualized for periods less than one year.

⁽³⁾ Not annualized for periods less than one year.

⁽⁴⁾ Effective April 1, 2019, the Adviser has contractually agreed to waive its fee and, if necessary, reimburse the Fund until April 30, 2020 to the extent Total Annual Fund Operating Expenses exceed 1.85% of the average daily net assets of the Retail Class shares of the Fund.

See accompanying notes to financial statements.

Needham Small Cap Growth Fund

Financial Highlights

	Institutional Class			
	Six Months Ended June 30, 2019 (Unaudited)	Year Ended December 31, 2018	Year Ended December 31, 2017	Period from December 30, 2016 through December 31, 2016 ⁽¹⁾
<i>(For a Share Outstanding Throughout each Period/Year)</i>				
Net Asset Value, Beginning of Period/Year	\$12.57	\$15.76	\$15.25	\$15.25
Investment Operations				
Net Investment Loss	(0.04)	(0.10)	(0.07)	—
Net Realized and Unrealized Gain (Loss) on Investments	3.73	(0.33)	1.98	—
Total from Investment Operations	3.69	(0.43)	1.91	—
Less Distributions				
Net Realized Gains	—	(2.76)	(1.40)	—
Total Distributions	—	(2.76)	(1.40)	—
Net Asset Value, End of Period/Year	\$16.26	\$12.57	\$15.76	\$15.25
Total Return	29.36%⁽⁴⁾	(4.32)%	12.41%	0.00%
Net Assets, End of Period/Year (000's)	\$19,553	\$12,168	\$10,325	\$140
Ratios/Supplemental Data				
Ratio of Net Expenses to Average Net Assets	1.28% ⁽³⁾	1.40%	1.40%	1.40%
Ratio of Net Expenses to Average Net Assets (before interest and dividend expense)	1.28% ⁽³⁾⁽⁵⁾	1.40%	1.40%	1.40%
Ratio of Total Expenses to Average Net Assets (before waiver and reimbursement of expenses)	1.80% ⁽³⁾	1.95%	2.08%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets	(0.50)% ⁽³⁾	(0.65)%	(0.41)%	—% ⁽²⁾
Ratio of Net Investment Loss to Average Net Assets (before waivers and reimbursements of expenses)	(1.02)% ⁽³⁾	(1.21)%	(1.09)%	—% ⁽²⁾
Portfolio turnover rate	77% ⁽⁴⁾	103%	80%	0%

⁽¹⁾ The Class commenced operations on December 30, 2016.

⁽²⁾ Refer to Note 2 for further description of non-recurring charges related to the issuance of the share class.

⁽³⁾ Annualized for periods less than one year.

⁽⁴⁾ Not annualized for periods less than one year.

⁽⁵⁾ Effective April 1, 2019, the Adviser has contractually agreed to waive its fee and, if necessary, reimburse the Fund until April 30, 2020 to the extent Total Annual Fund Operating Expenses exceed 1.18% of the average daily net assets of the Institutional Class shares of the Fund.

See accompanying notes to financial statements.

Notes to Financial Statements (Unaudited)

June 30, 2019

1. Organization

Needham Growth Fund (“NGF”), Needham Aggressive Growth Fund (“NAGF”) and Needham Small Cap Growth Fund (“NSCGF”) (each, a “Portfolio” and collectively, the “Portfolios”), are portfolios of The Needham Funds, Inc. (the “Company”), which is registered under the Investment Company Act of 1940, as amended (the “1940 Act”), as an open-end management investment company. The Company was organized as a Maryland corporation on October 12, 1995. NGF, NAGF, and NSCGF each currently offer two classes, the Retail Class and the Institutional Class.

2. Class Specific Expenses

Class level expenses are allocated daily to each class of shares based upon the ratio of net assets represented by each class as a percentage of the net assets of the Portfolio. Expenses deemed directly attributable to a class of shares are recorded by the specific class. Most Portfolio expenses are allocated by class based on relative net assets. Distribution Fees incurred in connection with the Company’s Amended and Restated Plan of Distribution Pursuant to Rule 12b-1 are expensed at 0.25% of average daily net assets of the Retail Class shares, and the specific amounts are detailed in Note 5.

Certain of the Ratios and Supplemental Data presented in the Financial Highlights of the Institutional Class as of December 31, 2016 include non-recurring charges related to the issuance of the class and are not meaningful.

3. Significant Accounting Policies

The following is a summary of significant accounting policies followed by the Company in the preparation of its financial statements. These policies are in conformity with accounting principles generally accepted in the United States of America (“GAAP”).

Security Valuation: Portfolio securities for which market quotations are readily available are stated at the last sale price reported by the principal exchange for the security as of the exchange’s close of business. Securities for which no sale has taken place during the day and securities which are not listed on an exchange are valued at the mean of the highest closing bid and lowest asked prices. Exchange traded options are valued at the last reported sale price on any exchange on which the option is principally traded. If no sales are reported on a particular day, the options will be valued at the mean between the highest closing bid and lowest asked prices across the exchanges where the option is traded. Non-exchange traded options will also be valued at the mean between the last bid and asked quotations. For options where market quotations are not readily available, value will be determined in accordance with the fair value procedures described below. All other securities and assets for which (a) market quotations are not readily available, such as in the case of a market or technical disruption that prevents the normal trading of a security held by a Portfolio, (b) market quotations are believed to be unrepresentative of fair market value, such as in the case of a thinly traded security, or (c) valuation is normally made at the last sale price on a foreign exchange and a significant event occurs after the close of that exchange but before

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

the New York Stock Exchange closes, are valued at their fair value as determined in good faith by the Board of Directors (the “Board”) in accordance with Fair Value Procedures established by the Board. The Company’s Fair Value Procedures are implemented and monitored by a Fair Value Committee (the “Committee”) designated by the Board. When a security is valued in accordance with the Fair Value Procedures, the Committee determines a value after taking into consideration any relevant information that is reasonably available to the Committee. Some of the more common reasons that may necessitate that a security be valued pursuant to these Fair Value Procedures include, but are not limited to: the security’s trading has been halted or suspended; the security has been delisted from a national exchange; the security’s primary trading market is temporarily closed at a time when under normal conditions it would be open; or the security’s primary pricing source is not able or willing to provide a price. The securities of each Portfolio may also be valued on the basis of valuations provided by a pricing service approved by, or on behalf of, the Board.

Portfolio securities listed or traded on securities exchanges, including American Depositary Receipts (“ADRs”), are valued at the closing price on the exchange or system where the security is principally traded or at the NASDAQ Official Closing Price. If there have been no sales for that day on the exchange or system, a security is valued at the mean of the highest closing bid and lowest asked prices on the exchange or system where the security is principally traded.

The Portfolios did not value any securities in accordance with the Fair Value Procedures as of June 30, 2019.

Investment Transactions: Changes in holdings of portfolio securities for the Portfolios shall be reflected no later than in the first calculation on the first business day following the trade date for purposes of calculating each Portfolio’s daily net asset value per share. However, for financial reporting purposes, portfolio security transactions are reported on the trade date of the last business day of the reporting period. The cost (proceeds) of investments sold (bought to cover) is determined on a specific identification basis for the purpose of determining gains or losses on sales and buys to cover short positions. Dividend income, distributions to shareholders and dividend expense from securities sold short are recorded on the ex-dividend date. Interest income and interest expense from securities sold short is recorded on an accrual basis.

Foreign Currency: Foreign currency amounts are translated into U.S. dollars as follows: (i) assets and liabilities at the rate of exchange at the end of the respective period; and (ii) purchases and sales of securities and income and expenses at the rate of exchange prevailing on the dates of such transactions. The portion of realized/unrealized gains arising from changes in the exchange rates are included with the net realized/unrealized gain (loss) from affiliated and unaffiliated securities, securities sold short and foreign currency translations. Principal risks associated with such transactions include the movement in value of the foreign currency relative to the U.S. dollar and the ability of the counterparty to perform.

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

The Portfolios may also invest in forward currency contracts. Fluctuations in the value of such forward currency transactions are recorded daily as unrealized gain or loss; realized gain or loss includes net gain or loss on transactions that have terminated by settlement. These instruments involve securities and currency market risk, credit risk, or both kinds of risks, in excess of the amount recognized in the statements of assets and liabilities. Risks also arise from the possible inability of counterparties to meet the terms of their contracts. The Portfolios did not enter into forward currency contracts during the period ended June 30, 2019.

Allocation of Expenses: Expenses directly attributable to a Portfolio are charged directly to that Portfolio, while expenses which are attributable to more than one Portfolio are allocated among the respective Portfolios based upon relative net assets or some other reasonable method.

Use of Estimates: The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of increases and decreases in net assets from operations during the reporting period. Actual results could differ from those estimates.

Distributions to Shareholders: Dividends from net investment income, if any, are declared and paid annually for the Portfolios. Distributable net realized gains, if any, are declared and distributed at least annually.

Federal Income Taxes: It is the policy of each Portfolio to continue to qualify as a regulated investment company, as defined in the Internal Revenue Code, by complying with the provisions available to certain investment companies and to make distributions of net investment income and net realized capital gains sufficient to relieve it from all, or substantially all, federal income taxes. Accordingly, no provision for income taxes has been made in the Portfolios' financial statements.

As of December 31, 2018, the Portfolios did not have any tax positions that did not meet the "more-likely-than-not" threshold of being sustained by the applicable tax authority. Open tax years are those that are open for exam by Federal and state taxing authorities. As of December 31, 2018, open Federal tax years include the tax years ended December 31, 2015 through December 31, 2018, and open New York tax years include the tax years ended December 31, 2015 through December 31, 2018. The Portfolios have no tax examinations in progress.

Fair Value Measurements: Valuation inputs used to determine the value of the Portfolios' investments are summarized in the three broad levels listed below:

Level 1 — Unadjusted quoted prices in active markets for identical assets and liabilities that the Portfolios have the ability to access.

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

Level 2 — Observable inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These inputs may include quoted prices for the identical instrument in an inactive market, prices for similar instruments, interest rates, prepayment speeds, credit risk, yield curves, default rates and similar data.

Level 3 — Unobservable inputs for the asset or liability, to the extent relevant observable inputs are not available, representing the Portfolios' own assumptions about the assumptions a market participant would use in valuing the asset or liability, and would be based on the best information available.

The inputs or methodology used to value securities are not necessarily an indication of the risk associated with investing in those securities.

Portfolio securities listed or traded on securities exchanges, including ADRs, are valued at the closing price on the exchange or system where the security is principally traded or at the NASDAQ Official Closing Price. If there have been no sales for that day on the exchange or system, a security is valued at the mean of the highest closing bid and lowest asked prices on the exchange or system where the security is principally traded. These valuations are typically categorized as Level 1 in the fair value hierarchy.

In accordance with procedures adopted by the Board, fair value pricing may be used if events materially affecting the value of foreign securities occur between the times the exchange on which they are traded closes and the time the Portfolios' net asset values are calculated. These valuations are categorized as Level 2 in the fair value hierarchy.

The following is a summary categorization, as of June 30, 2019, of each Portfolio's investments based on the level of inputs utilized in determining the value of such investments:

	LEVEL 1 – Quoted Prices ⁽¹⁾		
	NGF	NAGF	NSCGF
Assets			
Common Stocks ⁽²⁾	\$91,421,497	\$44,232,482	\$31,734,148
Closed-End Funds	—	—	596,075
Short-Term Investments	4,843,383	1,555,026	6,652,941
Liabilities			
Securities Sold Short ⁽²⁾	(1,664,370)	(740,570)	—
Total	\$94,600,510	\$45,046,938	\$38,983,164

⁽¹⁾ As of June 30, 2019, the Portfolios did not hold Level 2 or Level 3 investments.

⁽²⁾ Please refer to the Schedule of Investments and Schedule of Securities Sold Short to view segregation by industry.

4. Investment Advisory and Administrative Services

The Company has engaged Needham Investment Management L.L.C. (the "Adviser") to manage its investments pursuant to an Investment Advisory Agreement. The Company pays the Adviser an investment advisory fee at the annual rate of 1.25% of the average daily net assets of each Portfolio.

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

The Adviser has entered into an agreement with the Company (the “Expense Limitation Agreement”) whereby the Adviser has contractually agreed to waive its investment advisory fee for, and to reimburse expenses of, the Institutional Class and Retail Class shares of each Portfolio in an amount that limits annual operating expenses to not more than 1.40% and 1.95% (or, for NSCGF only, 1.18% and 1.85%) of the average daily net assets of the Portfolio’s Institutional Class and Retail Class, respectively (excluding taxes, interest, brokerage, dividends on short positions, acquired fund fees and expenses and extraordinary items, but including the investment advisory fee stated in the Investment Advisory Agreement). The Expense Limitation Agreement is effective for the period from April 1, 2019 through April 30, 2020. The Expense Limitation Agreement shall continue in effect from year to year thereafter only upon mutual agreement of the Company and the Adviser. Similar agreements were in effect for certain prior periods.

Any reimbursements or fee waivers made by the Adviser in respect of a Portfolio are subject to recoupment by the Adviser, to the extent that the Portfolio is able to make the repayment within the expense limitation established in the Expense Limitation Agreement. Under the Expense Limitation Agreement, the Adviser has a right to receive from each Portfolio class reimbursement for fee waivers and/or expense reimbursements made pursuant to the Agreement for a period of up to 36 months from the time of any waiver or reimbursement. The table below contains the amounts of fee waivers and expense reimbursements subject to recapture by the Adviser through December 31 of the year indicated:

	2022	2021	2020	2019	Total
NGF (Retail Class)	\$ 2,869	\$ —	\$ —	\$ —	\$ 2,869
NGF (Institutional Class)	47,615	91,844	84,071	—	223,530
NAGF (Retail Class)	25,661	23,838	18,700	2,038	70,238
NAGF (Institutional Class)	40,873	83,507	65,936	—	190,317
NSCGF (Retail Class)	14,394	45,317	50,855	24,337	134,903
NSCGF (Institutional Class)	43,642	69,833	48,693	—	162,167

The Company and Fund Services (the “Administrator”) are parties to a Fund Administration Servicing Agreement. The Administrator provides administrative and fund accounting services pursuant to this agreement and, in consideration of these services, receives a fee computed daily and paid monthly at an annual rate based on a percentage of the value of each Portfolio’s assets. The Administrator is also compensated for any out of pocket expenses that are reasonably incurred in carrying out its duties under the Administration Agreement. The Administrator also provides transfer agent services pursuant to a Transfer Agent Servicing Agreement for additional fees.

Certain officers of the Company are also officers of the Adviser and/or Needham & Company, LLC (the “Distributor”). Such officers receive no fees from the Company for serving as officers of the Company. Each of the two Directors who is not an “interested person” (as defined in the 1940 Act) of the Company (each, an “Independent Director”) receives a quarterly retainer of \$3,000 and a per-meeting fee of \$500. Each Independent

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

Director is also a member of the Audit Committee of the Company's Board of Directors and receives a fee of \$500 per meeting attended. The Adviser provides an employee to serve as Chief Compliance Officer for the Company and to provide certain related services. An affiliate of the Adviser, Needham & Company, LLC, pays the Chief Compliance Officer's compensation and the Company reimburses this affiliate for the Company's allocated portion of the expense.

5. Distribution Plan

The Company has adopted an Amended and Restated Plan of Distribution pursuant to Rule 12b-1 under the 1940 Act. Under the Plan, each Portfolio may pay compensation to the Distributor or any other distributor or financial institution with which the Company has an agreement with respect to the Retail Class of each Portfolio, with the amount of such compensation not to exceed an annual rate of 0.25% of each Portfolio's daily average net assets.

During the period ended June 30, 2019, NGF, NAGF and NSCGF incurred and paid brokerage commissions to the Distributor in the amount of \$12,958, \$4,343, and \$41,368, respectively.

6. Temporary Borrowings

Each Portfolio may borrow from banks up to 25% of its total assets and may pledge its assets in connection with these borrowings, provided that no additional investments shall be made while borrowings exceed 5% of total assets.

The Portfolios did not engage in any temporary borrowings during the period ended June 30, 2019.

7. Short Sale Transactions

During the period ended June 30, 2019, NGF and NAGF sold securities short. Upon selling a security short, the Portfolios record an asset for the settlement amount as "Deposit with Broker for Securities Sold Short" and a corresponding liability, which is marked-to-market to reflect current value. The broker for the Portfolios' short sale transactions requires maintenance by each Portfolio of a minimum amount of collateral at all times, regardless of whether any short sales are outstanding. To the extent necessary to meet the broker's collateral requirements for open short positions, additional securities will be segregated above the minimum to cover the short positions. At June 30, 2019, the market value of securities separately segregated to cover short positions was \$2,724,440, \$3,736,510, and \$1,235,925 for NGF, NAGF and NSCGF, respectively.

Additionally, the Portfolios had receivables for Deposit with Broker for Securities Sold Short of \$1,898,635, \$788,742 and \$0 pledged as collateral with a broker in connection with any open short positions for NGF, NAGF, and NSCGF, respectively at June 30, 2019. Securities sold short at June 30, 2019 and their related market values and proceeds are set forth in the preceding Schedule of Securities Sold Short for NGF and NAGF.

Notes to Financial Statements (Unaudited) (Continued)*June 30, 2019***8. Investment Transactions**

The following summarizes the aggregate amount of the cost of purchases and proceeds from sales of investment securities and securities sold short, excluding short-term securities, during the period ended June 30, 2019:

	Purchases	Sales
NGF		
Long Transactions	\$ 3,293,132	\$17,829,054
Short Sale Transactions	—	6,043,414
NAGF		
Long Transactions	1,389,768	9,096,790
Short Sale Transactions	—	3,620,789
NSCGF		
Long Transactions	22,560,222	22,043,940
Short Sale Transactions	—	—

There were no purchases or sales of U.S. government securities during the period ended June 30, 2019.

9. Financial Instruments With Off-Balance Sheet Risk

In the normal course of their business, the Portfolios may engage in transactions with off-balance sheet risk, including securities sold short, written options, futures, and forward currency contracts. Transactions in certain financial instruments represent future commitments to purchase or sell other financial instruments at specific terms at specified future dates. Each of these financial instruments contains varying degrees of off-balance sheet risk whereby changes in the market values of the securities underlying the financial instruments may be in excess of the amounts recognized in the financial statements.

Securities sold short represent obligations of the Portfolios to make future delivery of specific securities and, correspondingly, create an obligation to purchase the securities at market prices prevailing at a later delivery date (or to deliver the securities if already owned by the Portfolios). As a result, short sales create the risk that the Portfolios' ultimate obligation to satisfy the delivery requirements may exceed the amount of the proceeds initially received on the liability recorded in the financial statements.

10. Indemnification

Under the Company's organizational documents, its Directors and Officers are indemnified against certain liabilities arising out of the performance of their duties to the Company. In addition, in the ordinary course of business, the Company enters into contracts that contain a variety of indemnifications. The Company's maximum exposure under these arrangements is unknown. However, the Company has not had prior claims or losses pursuant to these contracts and expects the risk of loss to be remote.

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

11. Transactions with Affiliates

NAGF owned 5% or more of the voting securities of the following company during the period ended June 30, 2019. As a result, this company is deemed to be an affiliate of NAGF (and the other Portfolios) as defined by the 1940 Act. Transactions during the period in this affiliated company were as follows:

Security Name	Value at Dec. 31, 2018	Value of Purchases	Value of Sales	Net Change in Unrealized Appreciation (Depreciation)	Net Realized Gains (Losses)	Dividend Income	Value at June 30, 2019	Share Balance June 30, 2019
GSE Systems, Inc.	\$2,352,000	\$—	\$—	\$268,800	\$—	\$—	\$2,620,800	1,120,000

12. Federal Income Taxes

No provision for federal income taxes is required since the Company intends to continue to qualify as a regulated investment company under Subchapter M of the Internal Revenue Code and distribute substantially all of its taxable income and capital gains to shareholders. Because income tax regulations differ from GAAP, the timing and character of income and capital gain distributions determined in accordance with tax regulations can differ from income and capital gains recognized for financial reporting purposes. Accordingly, the character of distributions and the composition of net assets for tax purposes can differ from those reflected in the financial statements. These book/tax differences may be temporary or permanent in nature. Temporary differences are generally due to differing book and tax treatment for the timing of the recognition of gains and losses on securities, including post-October losses (as described below). Permanent differences are generally due to differing treatment of net investment losses. To the extent these differences are permanent, they are charged or credited to paid-in capital or distributable earnings, accumulated net realized gain (loss), or accumulated net investment income (loss), as appropriate, in the period in which the differences arise. These reclassifications have no effect on net assets or net asset value per share of each Portfolio.

As of December 31, 2018, the cost, gross unrealized appreciation, gross unrealized depreciation, and the net unrealized appreciation (depreciation) on securities, including proceeds from securities sold short for federal income tax purposes, were as follows:

	Cost	Gross Unrealized Appreciation	Gross Unrealized Depreciation	Net Unrealized Appreciation (Depreciation)
NGF	\$41,430,094	\$44,114,649	\$(7,872,601)	\$36,242,048
NAGF	22,176,537	20,551,457	(4,314,618)	16,236,839
NSCGF	27,552,841	1,900,346	(4,266,260)	(2,365,914)

The difference between the tax cost of investments and the cost of investments for GAAP purposes is primarily due to the tax treatment for wash sale losses.

Notes to Financial Statements (Unaudited) (Continued)

June 30, 2019

As of December 31, 2018, the components of distributable earnings (loss) on a tax basis were as follows:

	NGF	NAGF	NSCGF
Undistributed ordinary income	\$ —	\$ —	\$ —
Undistributed long-term capital gains	7,994,747	1,520,298	—
Unrealized appreciation (depreciation)	36,242,048	16,236,839	(2,365,914)
Other accumulated gains (loss)	(3,147)	—	(124,284)
Total accumulated earnings (loss)	\$44,233,648	\$ 17,757,137	\$ (2,490,198)

The tax character of distributions paid during the year ended December 31, 2018 was as follows:

	NGF	NAGF	NSCGF
Ordinary income	\$ —	\$ —	\$ 2,522,946
Net long-term capital gains	13,467,264	6,200,868	2,691,253
Return of capital	—	—	—
Total distributions paid	\$13,467,264	\$ 6,200,868	\$ 5,214,199

In 2018 a portion of such dividends was distributed in connection with NEEGX, NEAGX, and NESGX redemptions.

The tax character of distributions paid during the year ended December 31, 2017 was as follows:

	NGF	NAGF	NSCGF
Ordinary income	\$ 66,959	\$ —	\$ 2,019,133
Net long-term capital gains	10,413,410	3,108,250	345,430
Return of capital	—	—	—
Total distributions paid	\$10,480,369	\$ 3,108,250	\$ 2,364,563

Under current tax law, capital and currency losses realized after October 31 of a Portfolio's fiscal year may be deferred and treated as occurring on the first business day of the following fiscal year for tax purposes. The following Portfolios had deferred post-October capital and currency losses, which will be treated as arising on the first business day of the year ended of December 31, 2018.

NGF	\$ 3,147
NAGF	—
NSCGF	124,284

As of December 31, 2018, none of the Portfolios had accumulated capital loss carryovers.

13. New Accounting Pronouncements

In August 2018, FASB issued Accounting Standards Update ("ASU") 2018-13, Fair Value Measurement (Topic 820): Disclosure Framework — Changes to the Disclosure Requirements for Fair Value Measurement ("ASU 2018-13"). The primary focus of ASU 2018-13 is to improve the effectiveness of the disclosure requirements for fair value measurements. The changes affect all companies that are required to include fair value

Notes to Financial Statements (Unaudited) (Continued)*June 30, 2019*

measurement disclosures. In general, the amendments in ASU 2018-13 are effective for all entities for fiscal years and interim periods within those fiscal years, beginning after December 15, 2019. An entity is permitted to early adopt the removed or modified disclosures upon the issuance of ASU 2018-13 and may delay adoption of the additional disclosures, which are required for public companies only, until their effective date. Management has evaluated ASU 2018-13 and has early adopted the relevant provisions of the disclosure framework.

14. Subsequent Events

Management has evaluated subsequent events through the date of this filing. This evaluation did not result in any subsequent events that necessitated recognition or disclosures.

Supplementary Information (Unaudited)

June 30, 2019

Disclosure of Portfolio Holdings

The Company files a Form N-Q with the Securities and Exchange Commission (the “SEC”) no more than sixty days after the Company’s first and third fiscal quarters. For the Company, this would be for the fiscal quarters ending March 31 and September 30. Form N-Q includes a complete schedule of the Company’s portfolio holdings as of the end of those fiscal quarters. The Company’s N-Q filings are available without charge, upon request, by calling 800-625-7071 or on the SEC’s website at <http://www.sec.gov>.

Voting Proxies on Company Portfolio Securities

A description of the policies and procedures that the Company uses to determine how to vote proxies relating to portfolio securities and information regarding how the Company voted proxies relating to portfolio securities during the most recent 12-month period ended June 30 are available without charge, upon request, by calling 800-625-7071 or on the SEC’s website at <http://www.sec.gov>.

Household Delivery of Shareholder Documents

To reduce expenses, the Company may mail only one copy of the Portfolios’ prospectuses, proxy statements, information statements, and each annual and semi-annual report to those addresses shared by two or more accounts. If you wish to receive individual copies of these documents, please call the Portfolios at 1-800-625-7071 or contact your financial institution. You will begin receiving individual copies thirty days after receiving your request.

Index Disclaimer

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Supplementary Information (Unaudited) (Continued)*June 30, 2019*

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