Product Snapshot Essex Micro Cap Growth Strategy

Asset Class: United States-Equity

Primary Universe: eVestment US Micro Cap Growth Equity

Marketing Contact: Ken Rogers Title: Marketing Contact Phone/Fax: 914-251-1084 / Email Address: ken@arrowpartners.com

Key Facts Displayed in Product Base Currency - US Dollar (USD) Primary Capitalization: Primary Style Emphasis: Micro Cap Growth Preferred Benchmark: Total Product Assets: Russell Microcap Growth \$77.4 **Total Product Accounts:** Product Offered As: SA **Investment Focus:** Long Only

Asset & Account Information Displayed In Product Base Currency - US Dollar (USD)

Current Totals	Assets (\$ Million)	Accounts	Assets by Vehicle Type	Assets (\$ Million)
Total in Product	\$77.4	6	Separate/Segregated Assets	\$71.9
Total Taxable	\$5.5	1	Pooled/Commingled Assets	\$5.5
Total Tax-Exempt	\$71.9	5	Mutual Fund/Institutional Assets	\$0.0
Total Institutional	\$77.4	6	Mutual Fund/Retail Assets	\$0.0

Accounts Gained	<u>Number</u>	(\$ Million)	% Product Assets	Assets Lost	<u>Number</u>	(\$ Million)	% Product Assets
Current Quarter	0	\$0.0	0.0%	Current Quarter	0	\$0.0	0.0%
2019	1	\$26.8	81.5%	2019	0	\$0.0	0.0%
2018	0	\$0.0	0.0%	2018	0	\$0.0	0.0%

Portfolio Characteristics Displayed In Product Base Currency - US Dollar (USD)

Strategy Snapshot Primary Capitalization: Primary Style Emphasis: Micro Cap Growth Preferred Benchmark: Russell Microcap Growth Secondary Style Emphasis: Not Applicable Current Number Of Holdings: 102 Foreign Securities Utilized: Approach Towards Currency Hedging: % Hedged Back to Local Currency: ---Median Market Cap (Mil):

% Max Allowed In Emerging Markets: No Derivatives Utilized: Available Under Social Restrictions:

Fundamental Characteristics Current Cash Position: Annual Turnover (LTM): 1.0% 32% Current P/E (12-mo Trailing): Current P/B (12-mo Trailing): 18.79x 2.05x Current P/S (12-mo Trailing): 0.80x Earnings Growth (Past 5 Yrs): Weighted Avg. Mkt Cap (Mil): \$439 \$212

Market Capitalization Breakdown >\$50 Billion: \$15-50 Billion: 0.00% 0.00% \$7.5-15 Billion: \$1.5-7.5 Billion: 0.00% 4.28% \$750 Million-1.5 Billion: \$400 Million-750 Million: 7.85% 21.99% <\$400 Million:

Performance Information Displayed In Vehicle Base Currency - US Dollar (USD)

USA - SA - Composite - Essex Micro Cap Growth Strategy - Gross of Fees Track Record (2 Available): Risk Index: Russell Microcap Growth Frequency: Monthly Risk-Free Index: FTSE 3-Month T-Bill

		Returns							
Trailing Periods	Product	Benchmark	Excess	Std Dev	<u>Alpha</u>	<u>Beta</u>	Trk Error	Info Ratio	Sharpe Ratio
1 Year	20.53	23.33	-2.80	18.23	0.76	0.86	7.97	-0.35	1.00
2 Year	7.55	2.88	4.68	19.20	4.92	0.84	7.66	0.61	0.29
3 Year	13.89	7.28	6.61	16.37	7.35	0.84	6.89	0.96	0.75
4 Year	12.59	7.17	5.41	16.14	6.47	0.79	7.32	0.74	0.70
5 Year	8.22	4.87	3.35	15.52	4.27	0.75	7.91	0.42	0.46
6 Year	7.58	4.78	2.80	15.16	3.77	0.74	7.92	0.35	0.44
7 Year	15.63	10.58	5.05	15.96	6.85	0.78	8.09	0.62	0.93
8 Year	16.31	11.15	5.16	15.82	6.94	0.79	7.72	0.67	0.99
9 Year	13.01	8.78	4.23	16.53	5.51	0.81	7.44	0.57	0.75
10 Year	15.76	10.69	5.07	17.80	6.15	0.85	7.22	0.70	0.85
Since Inception (10/2007)	9.63	5.82	3.81	21.31	4.17	0.92	7.43	0.51	0.42
Calendar Years	<u>MRQ</u>	<u>YTD</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Product Returns:	9.42	20.53	-4.02	27.71	8.76	-7.62	4.43	78.29	21.18
Benchmark Returns:	17.69	23.33	-14.18	16.65	6.86	-3.85	4.30	52.84	15.17
Excess Returns:	-8.27	-2.80	10.16	11.06	1.90	-3.76	0.13	25.45	6.01

Fee Information Displayed In Product Base Currency - US Dollar (USD)

Vehicle Type	<u>Available</u>	Min. Size(\$ Mil)	Minimum Fee
Separate/Segregated	Open	\$3	
Pooled/Commingled	Not Available		
Mutual Fund	Not Available		

Fees By Acct. Size Separate/Segregated	\$25M \$250,000 100bps	\$50M \$500,000 100bps	\$75M \$750,000 100bps	\$100M \$1,000,000 100bps
Pooled/Commingled				
Mutual Fund				

Professional Information

Team Description	No.	Avg. Yrs. Exp.	Avg. Yrs. @ Firm
Portfolio Managers:	1	35	14
Research Analysts:	3	20	11
Traders:	2	31	28
Risk Portfolio/Monitoring:	0	0	0
Professional Turnover	MPO	Port Mgrs.	<u>Analysts</u>

Professional Turnover		Port Mgrs.	<u>Analysts</u>
Professionals Gained	MRQ	0	0
	2019	0	0
	2018	0	0
Professionals Lost	MRQ	0	0
	2019	0	0
	2018	0	0

Essex Micro Cap Growth Strategy Product Trends

Asset Class: United States-Equity

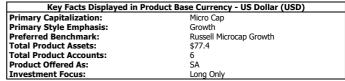
Primary Universe: eVestment US Micro Cap Growth Equity

 Marketing Contact:
 Ken Rogers

 Title:
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 ken@arrowpartners.com





Historical Product Assets Displayed In Product Base Currency - US Dollar (USD)

Category	2019	2018	2017	2016	2015
Total	\$77.4	\$32.9	\$40.6	\$12.5	\$1.8
Institutional	\$77.4	\$32.9	\$40.6	\$10.6	\$0.0
Taxable	\$5.5	\$2.3	\$2.4	\$1.9	\$1.8
Tax-Exempt	\$71.9	\$30.6	\$38.2	\$10.6	\$0.0



Universe Ranking Analysis vs eVestment US Micro Cap Equity Displayed In Vehicle Base Currency - US Dollar (USD)

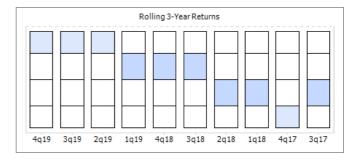
Annualized R	Annualized Returns (Periods Ending December 31, 2019)									
Percentile	MRQ	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs			
5th	16.73	36.48	36.48	21.65	15.85	20.03	18.02			
25th	11.92	28.72	28.72	10.71	11.13	14.97	15.14			
Median	9.45	22.18	22.18	7.49	9.29	13.33	13.41			
75th	7.49	16.73	16.73	5.61	7.55	11.46	11.95			
95th	2.95	11.60	11.60	2.52	3.39	7.40	10.34			
Product	9.42	20.53	20.53	13.89	8.22	15.63	15.76			
Rank	51	58	58	16	60	19	21			



Calendar Year Returns 2018 2015 2019 2017 2016 Median 14.41 22.18 -10.78 23.84 -1.75 Product 20.53 -4.02 27.71 8.76 -7.62 Rank 58 17 11 95 78 2014 201 2010 Median Product 4.43 78.29 21.18 -10.21 43.70 36 12 Rank 1 25 80



eturns (Periods E	nding)			
12/19	9/19	6/19	3/19	12/18
7.49	8.29	12.44	12.98	8.86
13.89 16	12.00 18	17.71 18	16.66 28	10.06 38
9/18	6/18	3/18	12/17	9/17
18.52	13.40	10.81	11.60	14.49
20.14 36	11.80 70	8.52 74	8.67 83	10.98 75
	12/19 7.49 13.89 16 9/18 18.52 20.14	7.49 8.29 13.89 12.00 16 18 9/18 6/18 18.52 13.40 20.14 11.80	12/19 9/19 6/19 7.49 8.29 12.44 13.89 12.00 17.71 16 18 18 9/18 6/18 3/18 18.52 13.40 10.81 20.14 11.80 8.52	12/19 9/19 6/19 3/19 7.49 8.29 12.44 12.98 13.89 12.00 17.71 16.66 16 18 18 28 9/18 6/18 3/18 12/17 18.52 13.40 10.81 11.60 20.14 11.80 8.52 8.67



Essex Micro Cap Growth Strategy Universe Rank

Asset Class: United States-Equity

Primary Universe: eVestment US Micro Cap Growth Equity

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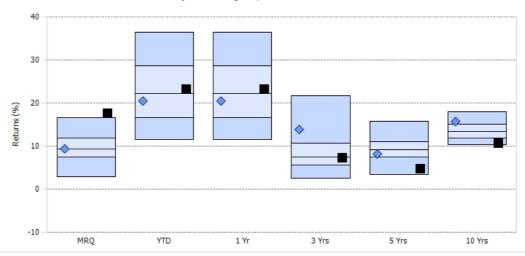
Key Facts Displayed in Product Base Currency - US Dollar (USD)

Primary Capitalization: Micro Cap
Primary Style Emphasis: Growth
Preferred Benchmark: Russell Microcap Growth
Total Product Assets: \$77.4

Total Product Accounts: 6
Product Offered As: SA
Investment Focus: Long Only

Peer Group Statistics And Ranking vs. eVestment US Micro Cap Equity Displayed In Vehicle Base Currency - US Dollar (USD)

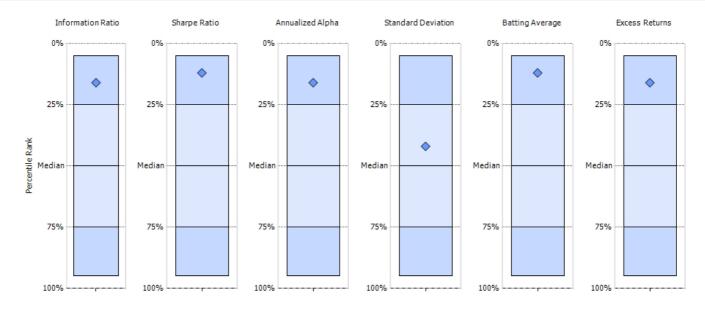
Quartile Ranking Analysis Annualized Returns



♦ Essex: Essex Micro Cap Growth Strategy ■ Benchmark: Russell Microcap Growth

	MRQ		YT	D	1 Y	'r	3 Y	rs	5 Y	rs	10 Y	'rs
Firm/Product	Return	Rank										
Essex Investment Management Company, LLC	9.42	51	20.53	58	20.53	58	13.89	16	8.22	60	15.76	21
Russell Microcap Growth	17.69	3	23.33	40	23.33	40	7.28	54	4.87	88	10.69	92
Universe Median	9.45		22.18		22.18		7.49		9.29		13.41	

Three Year Statistics vs. eVestment US Micro Cap Equity vs. Russell Microcap Growth Displayed In Vehicle Base Currency - US Dollar (USD)



	Information Ratio	Sharpe Ratio	Annualized Alpha	Standard Deviation	Batting Average	Excess Returns
Median	0.04	0.38	1.95	16.93	0.50	0.21
Product	0.96	0.75	7.35	16.37	0.61	6.61
Rank	16	12	16	42	12	16

Essex Micro Cap Growth Strategy Risk vs. Reward

Asset Class: United States-Equity

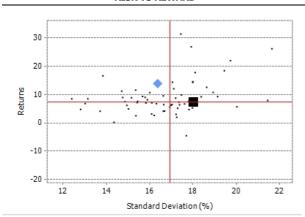
Primary Universe: eVestment US Micro Cap Growth Equity

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Key Facts Displayed in Product Base Currency - US Dollar (USD) Primary Capitalization:
Primary Style Emphasis:
Preferred Benchmark:
Total Product Assets: Micro Cap Growth \$77.4 **Total Product Accounts:** Product Offered As: SA **Investment Focus:** Long Only

Risk Vs Reward And Market Capture Analysis: 3 Years vs. eVestment US Micro Cap Equity Displayed In Vehicle Base Currency - US Dollar (USD)

RISK VS REWARD

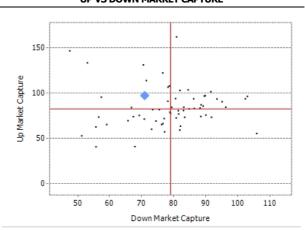


- Essex: Essex Micro Cap Growth Strategy
 Benchmark: Russell Microcap Growth

+ Universe Median

	Returns	Standard Deviation
Product	13.89	16.37
Benchmark	7.28	18.01

UP VS DOWN MARKET CAPTURE

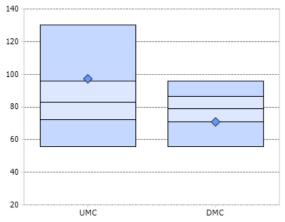


- Essex: Essex Micro Cap Growth Strategy + Universe Median

	<u>Product</u>		
Up Market Capture	97.29	# of Up Periods	21
Down Market Capture	70.89	# of Down Periods	15

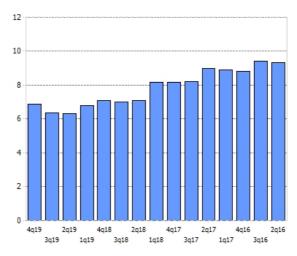
MARKET CAPTURE ANALYSIS: 3 YEARS

Upside/Downside Mkt Capture Ratio



	Up Market Capture	Down Market Capture
Median	82.78	79.00
Product	97.29	70.89
Rank	20	25

TRACKING ERROR: ROLLING 3-YEAR PERIODS



<u>End</u>	Trk Error	<u>End</u>	Trk Error	<u>End</u>	Trk Error
4q19	6.89	3q18	6.99	2q17	8.98
3q19	6.35	2q18	7.10	1q17	8.88
2q19	6.32	1q18	8.14	4q16	8.79
1q19	6.78	4q17	8.16	3q16	9.40
4q18	7.07	3q17	8.19	2q16	9.31

Micro Cap Growth

Period	Gross Return	Net Return	Benchmark Return	Number of Portfolios	Total Composite Assets (USD millions)	Total Firm Assets (USD millions)		Dispersion	Composite 3-year Standard Deviation	Benchmark 3-year Standard Deviation
2009	49.8 %	48.0 %	39.2 %	≤ 5	\$1.1	\$1,930	0.1 %	-	-	-
2010	43.7 %	42.0 %	29.5 %	≤ 5	\$1.6	\$1,470	0.1 %	-	31.0 %	29.1 %
2011	-10.2 %	-11.4 %	-8.4 %	≤ 5	\$1.4	\$1,058	0.1 %	-	24.6 %	25.2 %
2012	21.2 %	19.7 %	15.2 %	≤ 5	\$3.9	\$612	0.6 %	-	21.4 %	21.6 %
2013	78.3 %	76.2 %	52.8 %	≤ 5	\$5.8	\$740	0.8 %	-	18.6 %	18.5 %
2014	4.4 %	3.4 %	4.3 %	≤ 5	\$5.3	\$683	0.8 %	-	15.7 %	16.5 %
2015	-7.6 %	-8.6 %	-3.9 %	≤ 5	\$1.8	\$677	0.3 %	-	15.7 %	17.6 %
2016	8.8 %	7.7 %	6.9 %	≤ 5	\$12.5	\$606	2.1 %	-	13.7 %	19.4 %
2017	27.7 %	26.5 %	16.7 %	≤ 5	\$40.6	\$765	5.3 %	-	12.6 %	17.0 %
2018	-4.0 %	-5.0 %	-14.2 %	≤ 5	\$32.9	\$622	5.3 %	-	15.4 %	18.5 %

Essex Investment Management Company, LLC ("Essex") claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. Essex has been independently verified for the periods January 1, 1993 through December 31, 2018. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS standards on a firm-wide basis and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. The Micro Cap Growth composite has been examined for the periods October 1, 2007 through December 31, 2018. The verification and performance examination reports are available upon request.

Notes

- 1. Organization: Essex Investment Management Company, LLC ("Essex") is an independently owned investment management firm founded in 1976. Essex is a registered investment adviser with the SEC. The firm offers investment management services to individuals, institutional investors, separately managed sub-advisory account programs, and sub-advisory management services to mutual funds. When used herein, the term Essex also refers to the firm's predecessor, Essex Investment Management Company, Inc. On January 1, 2005, the Burridge Growth Partners division of the former The Burridge Group LLC merged with Essex. Burridge Growth Partners' portfolio manager, analysts and investment decision making process remained intact and its separately managed accounts continued under Essex's management.
- **2. Composite Definition:** This composite includes all actual, fee-paying, fully discretionary accounts managed by Essex to seek capital appreciation by investing in micro capitalization growth companies. The use of leveraging, short positions and derivatives has not been used by any of the accounts. The composite was created on March 13, 2008.
- 3. Benchmark: The Russell Micro Cap® Growth Index contains those securities in the Russell Micro Cap Index with a greater-than average growth orientation, and includes reinvestment of dividends. The Russell Micro Cap® Growth Index is a trademark of Russell Investments. Russell Investments is the owner of the trademarks, service marks and copyrights related to its respective indexes. An index is unmanaged, does not incur fees or expenses, and cannot be invested in directly. Benchmark returns are not covered by the report of independent verifiers.
- **4. Dispersion & Standard Deviation:** Essex uses an asset-weighted standard deviation calculation to measure dispersion. Only portfolios that are included in the composite for the entire year have been included in the dispersion calculation; it is not presented for periods less than one year or when there are five or fewer portfolios in the composite. The three-year annualized standard deviation measures the variability of the composite and the benchmark returns over the preceeding 36 month period.
- 5. Fees: The standard advisory fee is: For all accredited investor accounts 1.0% on all assets. Essex's standard advisory fee schedules are described in its Part II of Form ADV. The above net returns are based on a model 1.0% advisory fee which is applied monthly to calculate the net performance numbers.
- 6. Calculation Methodology: Gross performance results presented are net of transaction costs, but before management fees, custody fees and other indirect expenses. Net performance results are presented net of the maximum applicable management fees, transaction costs, withholding taxes and direct expenses, but before custody fees and other indirect expenses. This composite does not incur any performance-based fees. Composite returns include the reinvestment of income and class action proceeds, if applicable. Actual returns will be reduced by investment advisory fees. Investment advisory fees are generally collected quarterly, which produces a compounding effect on the total rate of return net of management fees. As an example, the effect of investment advisory fees on the total value of a client's portfolio assuming \$1,000,000 investment, portfolio return of 10% a year, and a 1.0% annual investment advisory fees would be \$10,577 in the first year, and a cumulative effects of \$63,180 over five years. The five year compounded gross rate of return of 61.1% would be reduced to 53.2% after taking into account advisory fees. The actual fee charged to an individual account may differ from the standard schedule depending on a number of factors including account type and size.
- 7. Other Matters/Disclosures: A complete list and description of the firm's composites are available upon request. Additional information regarding the firm's policies for valuing portfolios, calculating performance, and preparing compiliant presentations are available upon request. Clients or prospective clients should not assume they will have an investment experience similar to that indicated by the past performance results of the composite. Valuations and returns are computed and stated in U.S. Dollars. Past composite performance is not necessarily predictive of how an investors' individual account will perform. Whenever the potential for profit exists, there is also the potential for loss. This document has been approved for use in one-on-one presentations only and Essex requires that third party consultants provide this performance information and the related disclosures only in one-on-one presentations. Registration as an investment adviser with the SEC does not imply a certain level of skill or training. Such registration in no way implies that the Securities and Exchange Commission approves or endorses Essex, its strategies, or any of its marketing materials.

IMPORTANT

Risks of Micro Cap portfolios: Essex MIcro Cap Growth portfolio returns may show a high level of variability and volatility. In addition to market risk, additional risks in these portfolios may result from Essex's selection of specific securities, since individual holdings may represent a significant percentage of a portfolio's holdings from time to time. Sources: portfolio characteristics, top ten holdings, and sector weights calculated in tenenally by Essex. Performance externance of the Essex MIcro Cap Growth Composite, inception 10/1/07. Returns include reinvestment of dividends and other earnings. The Essex MIcro Cap Growth Composite includes periodically and the externance of those companies with higher price-to-book ratios and higher forecast growth values. The Russell Micro Cap Growth Index "contains those securities with a greater-than average growth orientation, and includes reinvestment of dividends. The Russell Micro Cap Growth Index "contains those securities with a greater-than average growth orientation, and includes reinvestment of dividends. The Russell Micro Cap Growth Index "so the performance of those companies with higher price-to-book ratios and higher forecast growth values. The Russell Micro Cap Growth Index "is a trademark of Russell Investments. Russell Investments is the owner of the trademarks, service marks and copyrights related to its respective indexes. The volatility of the indices may be materially different from the individual performance attained by a specific investor. In addition, the Adviser's/Fund's holdings may differ significantly from the securities that comprise the indices. The volatility of the indices have not been selected to represent an appropriate benchmark to companie an investor's performance to that of certain well-known mell-known mell-known mell-known well-known mell-known mell-known mell-known mell-known mell-known mell-known mell-known mell-known mell-known mell-kno

Performance Disclosures:

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Additional information regarding policies for calculating and reporting returns is available upon request



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