Product Snapshot Essex Small Growth

Asset Class: United States-Equity

Primary Universe: eVestment US Small Cap Growth Equity

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

Available Under Social Restrictions:

Key Facts Displayed in Product Base Currency - US Dollar (USD) Primary Capitalization: Primary Style Emphasis: Growth Preferred Benchmark: Total Product Assets: Russell 2000 Growth \$120.7 **Total Product Accounts:** SA,PF Product Offered As: **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	\$120.7	9	Separate/Segregated Assets	\$120.7
Total Taxable	\$0.8	1	Pooled/Commingled Assets	\$0.0
Total Tax-Exempt	\$119.9	8	Mutual Fund/Institutional Assets	\$0.0
Total Institutional	\$119.9	8	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	0	\$0.0	0.0%	2019	1	\$20.1	17.2%
2018	0	\$0.0	0.0%	2018	0	\$0.0	0.0%

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

Market Capitalization Breakdown Strategy Snapshot **Fundamental Characteristics** Primary Capitalization: Primary Style Emphasis: Current Cash Position: Annual Turnover (LTM): >\$50 Billion: \$15-50 Billion: Small Cap 1.9% 0.00% 35% 0.00% Growth Current P/E (12-mo Trailing): Current P/B (12-mo Trailing): 24.67x 2.72x \$7.5-15 Billion: \$1.5-7.5 Billion: 3.25% 22.88% Preferred Benchmark: Russell 2000 Growth Secondary Style Emphasis: Not Applicable Current Number Of Holdings: Current P/S (12-mo Trailing): 1.04x \$750 Million-1.5 Billion: \$400 Million-750 Million: 13.52% Earnings Growth (Past 5 Yrs): 23.55% Foreign Securities Utilized: Approach Towards Currency Hedging: Weighted Avg. Mkt Cap (Mil): \$1,456 <\$400 Million: 36.80% Median Market Cap (Mil): % Hedged Back to Local Currency: ---\$437 % Max Allowed In Emerging Markets: Derivatives Utilized: No

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

Yes

USA - SA - Composite - Essex Small Growth - Gross of Fees Track Record (3 Available): Risk Index: Russell 2000 Growth Monthly Risk-Free Index: FTSE 3-Month T-Bill Frequency:

		Returns							
Trailing Periods	Product	Benchmark	Excess	Std Dev	Alpha	Beta	Trk Error	Info Ratio	Sharpe Ratio
1 Year	27.42	28.48	-1.07	18.68	-0.83	1.00	3.39	-0.32	1.35
2 Year	10.09	7.95	2.14	20.36	2.09	0.99	4.43	0.48	0.39
3 Year	15.12	12.49	2.63	17.25	2.39	1.00	4.43	0.59	0.78
4 Year	13.81	12.20	1.62	17.54	1.63	0.99	4.59	0.35	0.71
5 Year	9.77	9.34	0.43	17.14	0.69	0.97	4.81	0.09	0.51
6 Year	9.01	8.71	0.30	16.71	0.71	0.96	5.09	0.06	0.49
7 Year	15.79	13.08	2.71	16.64	2.84	0.97	5.30	0.51	0.90
8 Year	15.59	13.27	2.32	16.36	2.43	0.98	5.17	0.45	0.91
9 Year	12.46	11.35	1.12	17.15	1.44	0.97	5.11	0.22	0.69
10 Year	14.04	13.01	1.04	18.22	1.23	0.99	5.33	0.19	0.74
Since Inception (10/2000)	11.59	5.95	5.64	21.19	5.81	0.95	7.35	0.77	0.47
Calendar Years	MRQ	<u>YTD</u>	2018	2017	<u>2016</u>	2015	<u>2014</u>	2013	2012
Product Returns:	9.78	27.42	-4.88	25.88	9.99	-5.03	5.31	66.32	14.15
Benchmark Returns:	11.39	28.48	-9.31	22.17	11.32	-1.38	5.60	43.30	14.59
Excess Returns:	-1.61	-1.07	4.42	3.71	-1.33	-3.65	-0.29	23.02	-0.44

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

Vehicle Type	Available	Min. Size(\$ Mil) Minimum Fee				
Separate/Segregated	Open	\$3	\$30,000		Team Description	<u>No.</u>	Avg. Yrs. Exp.
Pooled/Commingled	Not Available				Portfolio Managers:	1	35
Institutional MFs	Open				Research Analysts:	3	20
I i octational i ii o	ope				Traders:	2	31
					Risk Portfolio/Monitoring:	0	0
Fees By Acct. Size	\$25M	\$50M	\$75M	\$100M			
Separate/Segregated	\$240,000	\$445,000	\$645,000	\$845,000	Professional Turnover		Port Mgrs.
, , , , ,	96 bps	89 bps	86 bps	85 bps	Professionals Gained	MRQ	0
Pooled/Commingled						2019	0
, ,						2018	0
Institutional MFs	\$372,500	\$745,000	\$1,117,500	\$1,490,000			
	149 bps	149 bps	149 bps	149 bps	Professionals Lost	MRQ	0
						2019	0

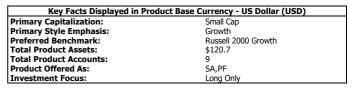
Avg. Yrs. @ Firm 11 28 0 **Analysts** 0 Ō 0

0 Ö Essex Small Growth Product Trends

Asset Class: United States-Equity

Primary Universe: eVestment US Small Cap Growth Equity

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

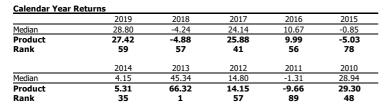
Category	2019	2018	2017	2016	2015
Total	\$120.7	\$116.8	\$132.2	\$65.9	\$74.9
Institutional	\$119.9	\$116.1	\$131.5	\$65.4	\$74.4
Taxable	\$0.8	\$21.1	\$28.7	\$28.1	\$32.0
Tax-Exempt	\$119.9	\$95.7	\$103.5	\$37.9	\$42.9



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

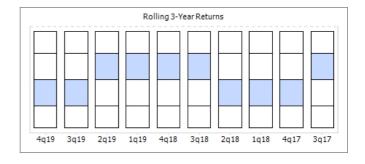
Annualized Re	eturns (Perio	ds Ending	December	31, 2019)			
Percentile	MRQ	YTD	1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs
5th	14.42	42.57	42.57	24.37	16.75	18.49	18.05
25th	12.07	36.14	36.14	19.36	13.17	15.87	15.63
Median	9.78	28.80	28.80	15.98	11.38	14.62	14.52
75th	7.62	25.04	25.04	12.68	9.77	13.51	13.61
95th	4.82	16.68	16.68	7.70	6.75	11.00	11.77
Product	9.78	27.42	27.42	15.12	9.77	15.79	14.04
Rank	50	59	59	57	75	27	62







	12/19	9/19	6/19	3/19	12/18
Median	15.98	13.41	18.22	17.65	9.45
Product Rank	15.12 57	12.06 62	18.26 49	17.84 48	9.61 47
	9/18	6/18	3/18	12/17	9/17
Median	19.57	12.17	9.95	11.29	12.45
Product Rank	19.80 47	11.68 57	8.46 69	9.55 68	12.91 44



Essex Small Growth Universe Rank

Asset Class: United States-Equity

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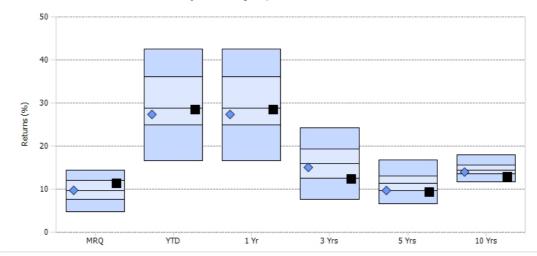
Key Facts Displayed in Product Base Currency - US Dollar (USD)

Primary Capitalization: Small Cap
Primary Style Emphasis: Growth
Preferred Benchmark: Russell 2000 Growth
Total Product Assets: \$120.7

Total Product Accounts: 9
Product Offered As: SA,PF
Investment Focus: Long Only

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

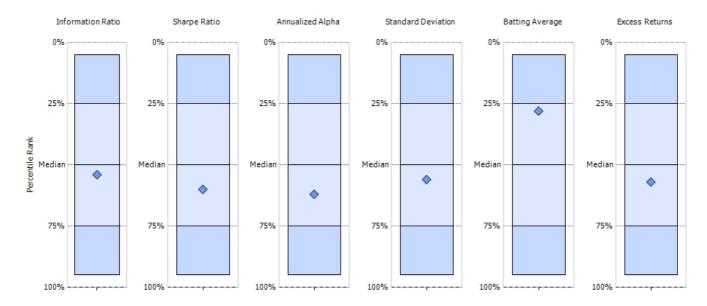




♦ Essex: Essex Small Growth ■ Benchmark: Russell 2000 Growth

	MRQ		YT	YTD 1		1 Yr		3 Yrs		5 Yrs		rs/
Firm/Product	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank	Return	Rank
Essex Investment Management Company, LLC	9.78	50	27.42	59	27.42	59	15.12	57	9.77	75	14.04	62
Russell 2000 Growth	11.39	30	28.48	51	28.48	51	12.49	77	9.34	80	13.01	83
Universe Median	9.78		28.80		28.80		15.98		11.38		14.52	

Three Year Statistics vs. eVestment US Small Cap Growth Equity vs. Russell 2000 Growth Displayed In Vehicle Base Currency - US Dollar (USD)



	Information Ratio	Sharpe Ratio	Annualized Alpha	Standard Deviation	Batting Average	Excess Returns
Median	0.69	0.87	4.08	17.01	0.56	3.49
Product	0.59	0.78	2.39	17.25	0.61	2.63
Rank	54	60	62	56	28	57

Essex Small Growth Risk vs. Reward

Asset Class: United States-Equity

Primary Universe: eVestment US Small Cap Growth Equity

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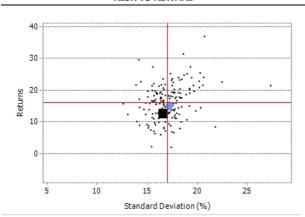
Key Facts Displayed in Product Base Currency - US Dollar (USD)

Primary Capitalization: Small Cap
Primary Style Emphasis: Growth
Preferred Benchmark: Russell 2000 Growth
Total Product Assets: \$120.7

Total Product Accounts: 9
Product Offered As: SA,PF
Investment Focus: Long Only

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

RISK VS REWARD



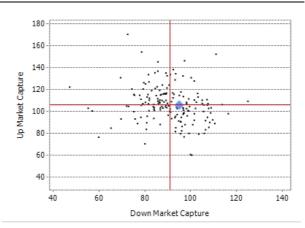
Essex: Essex Small Growth
 Benchmark: Russell 2000 Growth
 Universe Median

 Returns
 Standard Deviation

 Product
 15.12
 17.25

 Benchmark
 12.49
 16.6

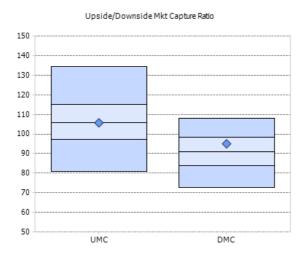
UP VS DOWN MARKET CAPTURE



Essex: Essex Small Growth
Universe Median

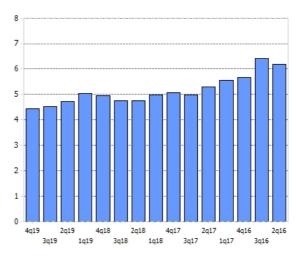
Up Market Capture Product # of Up Periods 20
Down Market Capture 95 # of Down Periods 10

MARKET CAPTURE ANALYSIS: 3 YEARS



	Up Market Capture	Down Market Capture
Median	105.72	91.01
Product	105.72	95.00
Rank	50	63

TRACKING ERROR: ROLLING 3-YEAR PERIODS



<u>End</u>	Trk Error	<u>End</u>	Trk Error	<u>End</u>	Trk Error
4q19	4.43	3q18	4.75	2q17	5.29
3q19	4.53	2q18	4.74	1q17	5.54
2q19	4.73	1q18	4.97	4q16	5.67
1q19	5.03	4q17	5.08	3q16	6.42
4q18	4.95	3q17	4.98	2q16	6.17

Small Growth

Period	Gross Return	Net Return	Benchmark Return	Number of Portfolios	Total Composite Assets (USD millions)	Total Firm Assets (USD millions)	Composite Assets as a % of Total Firm Assets	Dispersion	Composite 3-year Standard Deviation	Benchmark 3-year Standard Deviation
2009	32.6 %	31.0 %	34.5 %	19	\$725	\$1,930	37.6 %	0.2	26.7 %	24.9 %
2010	29.3 %	27.7 %	29.1 %	13	\$620	\$1,470	42.2 %	0.3	29.7 %	27.7 %
2011	-9.7 %	-10.8 %	-2.9 %	10	\$383	\$1,058	36.2 %	0.1	24.0 %	24.3 %
2012	14.2 %	12.8 %	14.6 %	≤ 5	\$96	\$612	15.7 %	-	21.4 %	20.7 %
2013	66.4 %	64.7 %	43.3 %	≤ 5	\$104	\$740	14.1 %	-	17.8 %	17.3 %
2014	5.3 %	4.3 %	5.6 %	≤ 5	\$80	\$683	11.7 %	-	14.7 %	13.8 %
2015	-5.0 %	-6.0 %	-1.4 %	≤ 5	\$75	\$677	11.1 %	-	15.4 %	15.0 %
2016	10.0 %	8.9 %	11.3 %	≤ 5	\$66	\$606	10.9 %	-	16.0 %	16.7 %
2017	25.9 %	24.6 %	22.2 %	10	\$132	\$765	17.3 %	-	14.7 %	14.6 %
2018	-4.9 %	-5.8 %	-9.3 %	10	\$117	\$622	18.8 %	0.3	17.0 %	16.5 %

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 Small Growth composite has been examined for the periods October 1, 2000 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' by 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 fully discretionary accounts managed by Essex to seek capital appreciation by investing in small/micro capitalization growth companies. For the period 10/1/2000–12/31/2001, the only accounts in the composite were non-fee paying accounts. The use of leveraging, short positions and derivatives has not been used by any of the accounts. The composite was created on October 1, 2000. Performance results from October 1, 2000 (the composite's inception) through January 1, 2005 are that of the Small Cap composite managed by Nancy Prial while she was Chief investment Officer and the key decision maker of Burridge Growth Partners. The investment composition of the composite strategy remained intact with the merger only the name of the composite has changed. Performance results for years prior to 2005 were achieved while the managers of the investment strategy were employed with The Burridge Group LLC. Therefore, Total Firm Assets prior to 2005 are shown as N/A because the firm no longer exists and only a portion of assets with Burridge transferred to Essex. All portability requirements with respect to the GIPS® have been met. On 1/1/15 the composite name changed from Small/Micro Cap to Small Growth.
- 3. Benchmark: The Russell 2000* Growth Index contains those securities in the Russell 2000 Index with a greater-than average growth orientation, and includes reinvestment of dividends. The Russell 2000* 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 preceding 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 actions proceeds, if applicable. Actual returns will be reduced by investment advisory fees and any additional fees and expenses. 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 fee would be \$10,577 in the first year, and 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.
- $\textbf{7. Composite Characteristics:} \ \ The minimum value threshold used to be \$1,000,000. \ The minimum value threshold is no longer in place as of 10/1/2012.$
- 8. 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 compliant 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.

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Risks of Small Growth portfolios: Essex Small 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 internally by Essex. Performance Calculations: performance returns are of the Essex Small Growth Composite, inception 10/1/00. Returns include reinvestment of dividends and other earnings. The Essex Small Growth Composite includes all fully discretionary accounts managed by Essex to seek capital appreciation by investing in small/micro capitalization growth companies. The use of leveraging, short positions and derivatives has not been used by any of the accounts. The Russell 2000 Growth Index °s contains those securities with a greater-than average growth orientation, and includes reinvestment of dividends. The Russell 2000 Growth Index °s to a trademark of Russell Investments is the owner of the treme are discovered was a trademark of Russell providents. The sussell 2000 Growth Index °s to a trademark of Russell investments is the owner of the treme are discovered was a trademark of Russell investments. Russell investments is the owner of the treme are discovered in the companies of the indices. 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 indices have not been selected to represent an appropriate benchmark to companie an investor's performance, but rather are disclosed to allow for companizor of an investor's performance to that of certain well-known and widely recognized indices. An index is unamagaged, does not incur fees or expenses, and cannot be invested in directly. Composite r

Performance Disclosures:

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



Important Disclosures (Continued):

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Representative portfolio characteristics, holdings, sector weightings and market capitalization are based on a representative portfolio and are subject to change at any time. Holdings, sector weightings, market capitalization and portfolio characteristics of individual client portfolios may differ, sometimes significantly, from those shown. This information does not constitute, and should not be construed as, investment advice or recommendations with respect to the securities and sectors listed. Past performance is no guarantee of future results. Performance is preliminary and subject to change. There is no guarantee that the Portfolio's objective will be met. This does not constitute an offer to sell or the solicitation of an offer to purchase any security or investment product, nor does it constitute a recommendation to invest in any particular security. An investment in securities is speculative and involves a high degree of risk and could result in the loss of all or a substantial portion of the amount invested. There can be no assurance that the strategy described herein will meet its objectives generally, or avoid losses. Essex makes no warranty or representation, expressed or implied; nor does Essex accept any liability, with respect to the information and data set forth herein, and Essex specifically disclaims any duty to update any of the information and data contained in the commentary. This information and data does not constitute legal, tax, account, investment or other professional advice.