# Jupiter Police Officers' Retirement Fund

Investment Performance Period Ending September 30, 2017



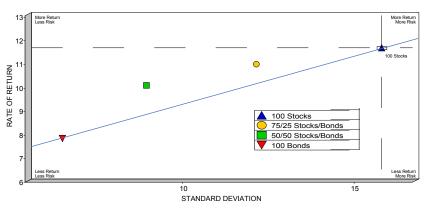
#### Jupiter Police Officers' Retirement Fund

#### BCA Market Perspective © Bonds Place in a Bull Market

#### Mitchel Brennan October 2017

As the markets sit today, investors find themselves in uncharted waters. For over three decades, bonds have been an integral part to any well diversified investment portfolio, enjoying one of the longest secular bull markets in market history. This run has benefitted immensely from Fed actions and quantitative easing; but now, that accomodative environment is changing. The Federal Reserve looks to unwind their balance sheet and move US interest rates back to a more normalized level. Should investors maintain their position in fixed income with the prospect of rising interest rates?

In December 2015, the Fed began the process of raising the Federal Funds Rate, which has resulted in 4 rate hikes, raising the target from 0.25% to 1.25%. It is anticipated there will be an additional hike in December 2017 and three more for 2018. Most investors fear negative returns from bonds if rates rise, but what is the actual downside if they do? Right now the Bloomberg Barclay's Aggregate Bond Index (BBAG Index), the most widely used bond benchmark, has a duration of 6.1 years and an average coupon of 3.03%. That means if rates were to rise by 100 basis points (1.00%) you would expect a total return of roughly -3.0% from the index. The logical follow up questions are: "what is the worst case scenario for bonds?" and "how does that compare to the potential downside risk associated with equities?".



Historically, bonds have allowed investors to preserve capital with significantly less down side risk compared to stocks. The three worst drawdowns for bonds (BBAG Index) since 1980 were drops of -8.99% (6/1980-9/1981), -5.15% (1/994-6/1994), and -4.89% (2/1987-9/1987). To put that into perspective, over the same time period US Equities (S&P 500 Index) have averaged intra-year drops of -14.1% (JPMorgan Market Insights), including drops of -50.95% (10/2007-2/2009), -44.73% (8/2000-9/2002), and -29.58% (8/1987-11/1987).

Complementing an equity portfolio with bonds helps generate alpha while reducing volatility, as illustrated above. Adding just 25% bonds to a portfolio reduces standard deviation by 23% and beta by 24% while only sacrificing 0.7% in total return. Adding 50% bonds reduces standard deviation by 44% and beta by 47% while only sacrificing 1.6% in total return.

US stocks are in the second longest equity bull market, at 103 months and counting. Considering that historical bull markets have averaged a length of only 54 months, seeing a correction of 10% or more would not be out of the question. With that in mind, bonds still belong as a capital preserver and income producer in a well diversified investment portfolio.

Source: JPMorgan: Market Insights, September 2017. PSN.

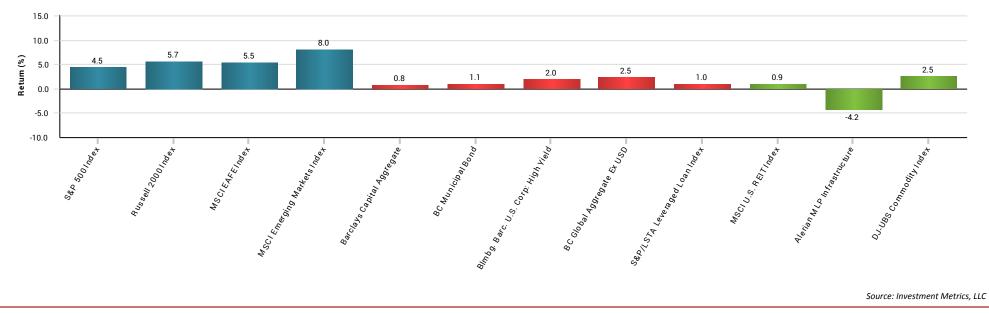
Disclosure: All expressions of opinion reflect the judgment of the author as of the date of publication and are subject to change. Content should not be regarded as a complete analysis of the subjects discussed or as personalized investment advice. All investment strategies have the potential for profit or loss. References to market performance in publications do not represent the returns achieved by Burgess Chambers & Associates or any of its advisory clients.



### **Quarterly Market Summary**

September 30, 2017

**1** Quarter Performance



#### 32.0 60.0 45.0 36.2 24.0 20.7 21.0 20.5 **8 8 1**5.0 **(%) 30.0** 18.6 19.9 28.9 **Return (%)** 19:0 22.4 17.8 21.3 16.5 15.3 14.5 15.5 6.8 <u>5.2</u> 3.7 4.2 **8.6** 6.0 6.8 13.4 4.4 2.9 0.8 0.2 0.0 -0.1 -1.3 8.0 5.7 6.2 4.5 .5.3 5.3 5.1 3.5 3.5 -15.0 2.1 1 1 0.0 Quarter Year 1 1 S&P 500 Consumer Discretionary S&P 500 Consumer Staples S&P 500 Energy Quarter Year S&P 500 S&P 500 Growth S&P 500 Value S&P 500 Financials S&P 500 Health Care S&P 500 Industrials S&P 500 Information Technology S&P 500 Telecom Services Russell Midcap Growth Index Russell Midcap Value Index S&P 500 Materials Russell Midcap Index Russell 2000 Index Russell 2000 Growth Index Russell 2000 Value Index S&P 500 Utilities

Source: Investment Metrics, LLC

**US Market Indices Performance** 

US Market Sector Performance

#### Source: Investment Metrics, LLC

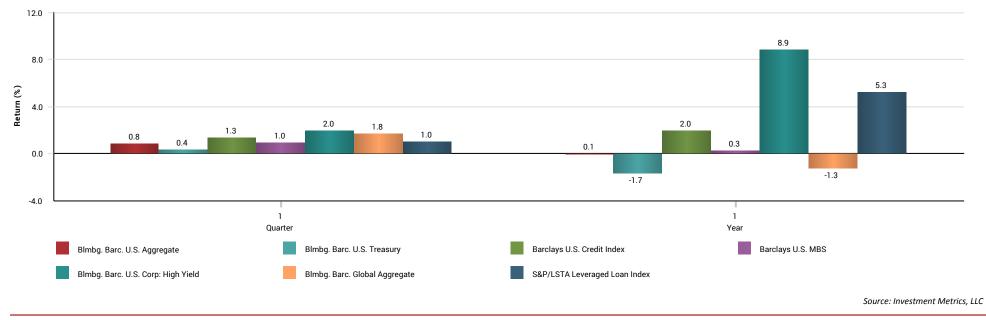
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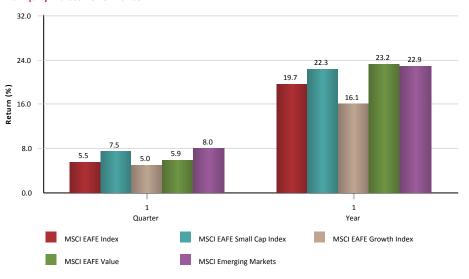
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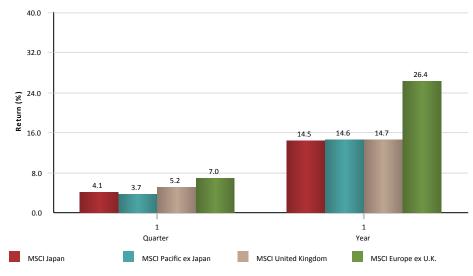
### **Quarterly Market Summary**

**Fixed Income Market Sector Performance** 





#### Intl Equity Region Performance



#### Source: Investment Metrics, LLC

Copyright © 2017 II



Source: Investment Metrics, LLC

#### Jupiter Police Officers' Retirement Fund Total Fund Investment Summary September 30, 2017

The investment program had a \$24.9 million or 36% allocated to passive or index-based asset categories, as of 9/30/2017. This recently adopted policy to gradually add passive solutions where practical, has already reduced the expense ratio from 0.60% to 0.40%. Based upon a \$69 million market value – the annual fee reduction is \$138K.

- □ The Fund earned \$1.9 million or +2.9% gross (+2.8% net) for the quarter, ahead of the benchmark (+2.6%). The top three performers were: Euro-Pacific (+6.9% 41st), iShares Russell 1000 Growth (+5.7% 43rd) and Eagle LCV (+3.9% 58th).
- □ For the Fiscal Year, the total Fund had earned \$6.4 million or +10.4% gross (+9.9% net) in line with the model portfolio (+10.0%) and ahead of the actuarial assumed rate of return (7.5%). The top three performing asset categories were: Eagle Capital LCV (+23.0% top 11th), Euro-Pacific (+20.7% top 38th) and iShares S&P 400 Mid Cap (+17.4% top 28th).
- □ For the five-year period, the total Fund had earned \$21.1 million, averaging +8.2% (+7.6% net) per year. This experience is consistent with the actuarial expected rate of return.
- Eaton Vance was liquated on August 25, 2017 and the proceeds were used to purchase additional shares of the iShares Russell 1000 Growth Fund.

#### **Program and Manager Comments**

- 1) Eagle's value equity program earned an impressive top 16th percentile ranking spot for three years and beat its benchmark.
- 2) The passive S&P 400 product ranked in the top 10th and top 13th percentiles, respectively, for the three and five-year periods.
- 3) Salient's MLP product beat the benchmark by a large margin for the 12-month period (-0.2% vs. -3.7%). Tortoise, which was added in June, earned -1.9% for the quarter vs. -3.0% for the benchmark.
- 4) The REIT index product ranked in the top 41st and 30th percentiles, for the three and five-year periods, respectively.
- 5) The Private Real Estate product has been an excellent bond substitute over the past three years averaging +10.1% per year vs. +3.0% for fixed income. The American Realty real estate product focuses upon core or fully leased and stable properties. The current cash yield is 1.5% per quarter (6.0% per year) and the expected annual rate of capital appreciation is 3%. The debt to equity ratio is conservative having an average debt or leverage ratio of 0.22 (22%). This means that equity represents 78%. This approach is suitable for a defined benefit pension fund.



### Jupiter Police Officers' Retirement Fund Total Fund Investment Policy Review September 30, 2017

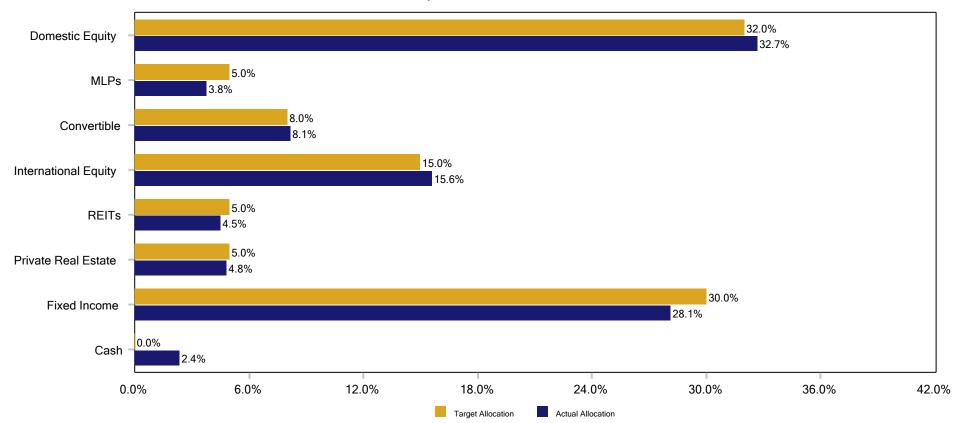
	Yes	<u>No</u>
The annualized one-year performance achieved the 7.5% actuarial assumption rate.	Yes	
The annualized three-year total Fund performance achieved the return of the model.	$\boxtimes$	
The annualized three-year total Fund performance ranked in the top 40th percentile.		$\ge$
The total Fund's annualized three-year performance achieved the 7.5% actuarial assumption rate.		$\boxtimes$
The annualized five-year total Fund performance achieved the return of the model.	$\boxtimes$	
The annualized five-year total Fund performance ranked in the top 40th percentile.		
The total Fund's annualized five-year performance achieved the 7.5% actuarial assumption rate.	$\square$	
The annualized three-year Eagle Capital large cap value performance achieved the Russell 1000 Growth. The annualized three-year Eagle Capital large cap value performance ranked in the top 40th percentile.	$\boxtimes$	
The annualized three-year Salient MLP performance achieved the Alerian MLP Index.	$\square$	
The annualized three-year Advent convertible performance achieved the ML Conv x144A All Quality Index. The annualized three-year Advent convertible performance ranked in the top 40th percentile. The annualized five-year Advent convertible performance achieved the ML Conv x144A All Quality Index. The annualized five-year Advent convertible performance ranked in the top 40th percentile.		
The American Realty Private RE three-year performance achieved the NCREIF ODCE. The American Realty Private RE five-year performance achieved the NCREIF ODCE.		$\boxtimes$
The annualized three-year C.S. McKee fixed income performance achieved the fixed income benchmark. The annualized three-year C.S. McKee fixed income performance ranked in the top 40th percentile. The annualized five-year C.S. McKee fixed income performance achieved the fixed income benchmark. The annualized five-year C.S. McKee fixed income performance ranked in the top 40th percentile.		
Total equity securities (including the REIT and convertibles), were within the 70% at market limitation. No more than 25% of the total Fund's assets at market were invested in foreign securities. The fixed income portfolio was invested in 5% or less in securities of any single corporate issuer. The Fund's assets were invested in 5% or less of the common stock or capital of any one issuing company. PFIA compliant.		

BCA

### Jupiter Police Officers' Retirement Fund Investment Performance - Net September 30, 2017

	<u>Quarter</u>	<u>One Year</u>	Three Years	Five Years
Beginning Market Value	67,091,646	62,995,033	56,464,877	43,893,429
Contributions	-26,411	-372,049	1,894,752	3,986,268
Gain/Loss	1,938,313	6,380,564	10,643,919	21,123,852
Ending Market Value	69,003,548	69,003,548	69,003,548	69,003,548
Total Fund (%)	2.8	9.9	5.5	7.6
Model Portfolio (%)	2.6	10.0	6.0	8.1

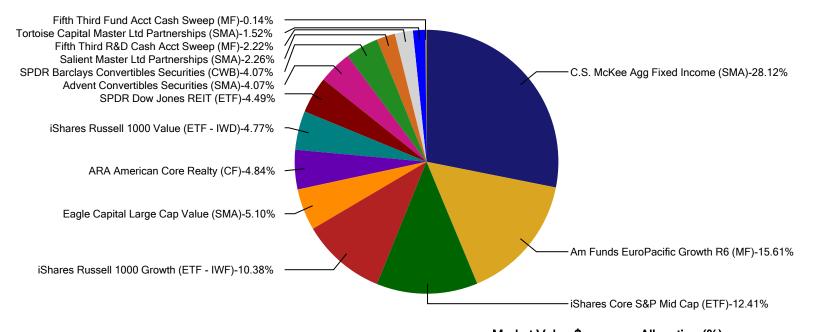
### Jupiter Police Officers' Retirement Fund Actual vs. Target Asset Allocation September 30, 2017



	Market Value Actual \$	Percent Actual	Percent Target	Percent Difference
Total Fund	69,003,548	100.0	100.0	0.0
Domestic Equity	22,539,745	32.7	32.0	0.7
MLPs	2,612,158	3.8	5.0	-1.2
Convertible	5,620,093	8.1	8.0	0.1
International Equity	10,768,169	15.6	15.0	0.6
REITs	3,098,900	4.5	5.0	-0.5
Private Real Estate	3,336,634	4.8	5.0	-0.2
Fixed Income	19,403,395	28.1	30.0	-1.9
Cash	1,624,454	2.4	0.0	2.4

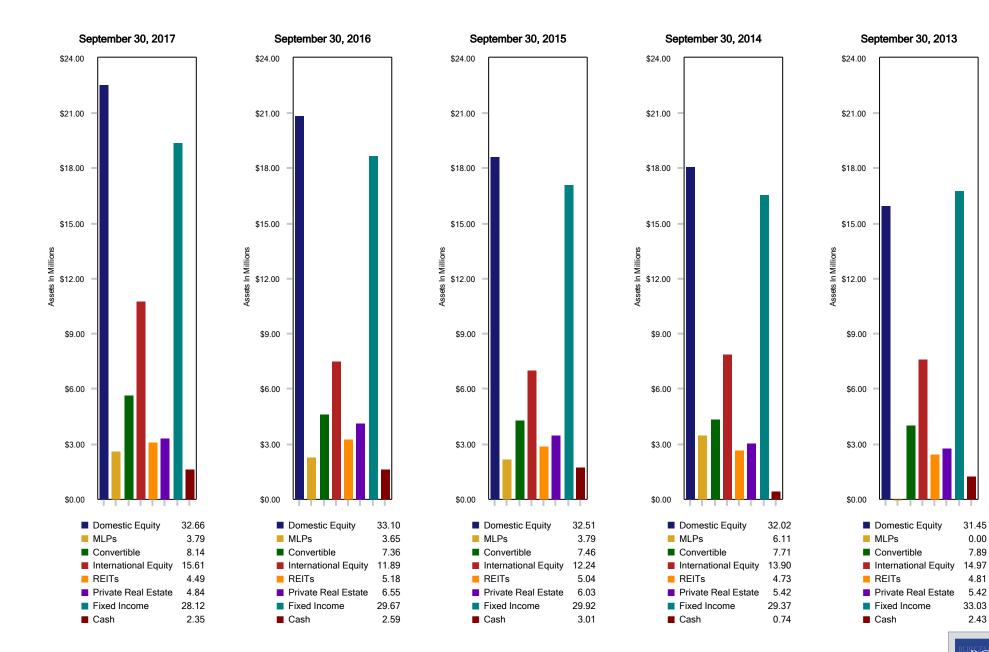
#### Jupiter Police Officers' Retirement Fund Asset Allocation





<u>Market Value \$</u>	Allocation (%)
19,403,395	28.12
10,768,169	15.61
8,566,090	12.41
7,163,062	10.38
3,521,704	5.10
3,336,634	4.84
3,288,890	4.77
3,098,900	4.49
2,811,243	4.07
2,808,850	4.07
1,561,394	2.26
1,528,681	2.22
1,050,764	1.52
95,773	0.14
	$\begin{array}{r} 19,403,395\\ 10,768,169\\ 8,566,090\\ 7,163,062\\ 3,521,704\\ 3,336,634\\ 3,288,890\\ 3,098,900\\ 2,811,243\\ 2,808,850\\ 1,561,394\\ 1,528,681\\ 1,050,764\\ \end{array}$

### Jupiter Police Officers' Retirement Fund Historical Asset Allocation September 30, 2017



### Jupiter Police Officers' Retirement Fund Asset Allocation & Performance September 30, 2017

Total Fund Model Portfolio	Market Value 69,003,548	QTD ROR - Rank 2.9 (85) 2.6	1 Year ROR - Rank 10.4 (83) 10.0	3 Year ROR - Rank 6.0 (78) 6.0	5 Year ROR - Rank 8.2 (64) 8.1
Equity	44,639,065	4.0	15.8	7.3	11.3
Domestic Equity	22,539,745	3.9	18.4	11.0	14.9
Eagle Capital Large Cap Value (SMA)	3,521,704	3.9 (58)	23.0 (11)	11.2 (16)	N/A
iShares Russell 1000 Value (ETF - IWD)	3,288,890	<b>3.0 (74)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Russell 1000 Value Index		3.1	15.1	8.5	13.2
iShares Russell 1000 Growth (ETF - IWF)	7,163,062	<b>5.7 (43)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Russell 1000 Growth Index		5.9	21.9	12.7	15.3
iShares Core S&P Mid Cap (ETF)	8,566,090	<b>3.2 (59)</b>	<b>17.4 (28)</b>	<b>11.1 (10)</b>	<b>14.5 (13)</b>
S&P MidCap 400 Index		3.2	17.5	11.2	14.4
MLPs	2,612,158	-1.8	-0.7	-12.9	N/A
Salient Master Ltd Partnerships (SMA)	1,561,394	<b>-1.7</b>	<b>-0.2</b>	<b>-10.8</b>	<b>N/A</b>
Alerian MLP Index		-3.0	-3.7	-12.9	-0.6
Tortoise Capital Master Ltd Partnerships (SMA)	1,050,764	<b>-1.9 (68)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Alerian MLP Index		-3.0	-3.7	-12.9	-0.6
Convertible	5,620,093	3.8	13.4	6.5	9.2
Advent Convertibles Securities (SMA)	2,811,243	<b>3.8 (33)</b>	<b>12.3 (54)</b>	<b>6.2 (61)</b>	<b>9.0 (60)</b>
ML All Convertibles Excl. 144A All Qualities Index		3.7	14.5	6.9	11.0
SPDR Barclays Convertibles Securities (CWB)	2,808,850	<b>3.8 (49)</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
Blmbg. Barc. U.S. Convertibles: 500MM		4.2	15.6	8.2	11.6
International Equity	10,768,169	7.0	21.0	4.7	7.7
Am Funds EuroPacific Growth R6 (MF)	10,768,169	<b>6.9 (41)</b>	<b>20.7 (38)</b>	<b>N/A</b>	<b>N/A</b>
MSCI EAFE Index		5.5	19.7	5.5	8.9

#### Jupiter Police Officers' Retirement Fund Asset Allocation & Performance September 30, 2017

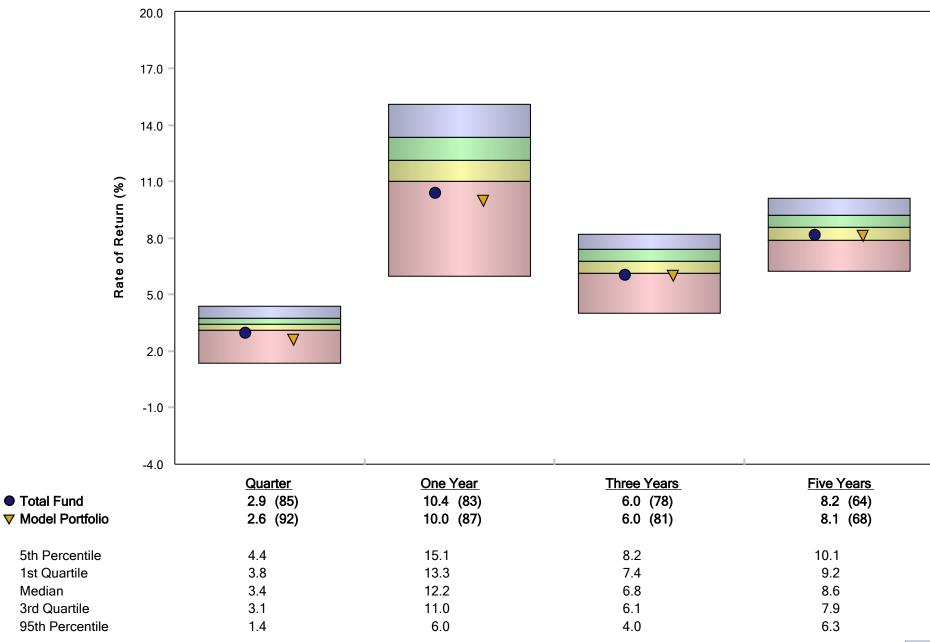
	Market Value	QTD ROR - Rank	1 Year ROR - Rank	3 Year ROR - Rank	5 Year ROR - Rank
REITs	3,098,900	0.4	-0.9	9.2	9.2
SPDR Dow Jones REIT (ETF) Wilshire U.S. REIT Index	3,098,900	<b>0.3 (70)</b> 0.6	<b>-1.1 (71)</b> 0.1	<b>9.0 (41)</b> 9.7	<b>8.9 (30)</b> 9.5
Private Real Estate	3,336,634	1.9	7.5	10.1	11.0
ARA American Core Realty (CF) NCREIF Fund Index-ODCE (VW)	3,336,634	<b>1.9</b> 1.9	<b>7.5</b> 7.7	<b>10.1</b> 10.8	<b>11.0</b> 11.6
Fixed Income	19,403,395	0.9	0.5	3.0	2.3
C.S. McKee Agg Fixed Income (SMA) Fixed Income Benchmark	19,403,395	<b>0.9 (68)</b> 0.7	<b>0.5 (60)</b> 0.2	<b>3.0 (53)</b> 2.2	<b>2.3 (60)</b> 1.7
Cash	1,624,454	0.1	0.3	0.1	0.1
Fifth Third R&D Cash Acct Sweep (MF)	1,528,681	0.1	0.3	0.1	0.1
Fifth Third Fund Acct Cash Sweep (MF) BofA Merrill Lynch 3 Month U.S. T-Bill	95,773	<b>0.0</b> 0.3	<b>0.0</b> 0.7	<b>0.0</b> 0.3	<b>0.0</b> 0.2

**1 Model Portfolio:** From 4/2014 10% R1000 Value, 10% R1000 Growth, 8% ML Converts ex144A, 12% S&P 400 Mid cap, 15% MSCI EAFE , 5% Wilshire REIT, 5% NCREIF ODCE, 5% Alerian MLP, 25% BC Int Agg Bond, 5% 1-10 yr TIPS. Prior from 4/2012 10% R1000 Value, 10% R1000 Growth, 8% ML Converts ex144A, 12% S&P 400 Mid cap, 15% MSCI EAFE , 5% Wilshire REIT, 5% NCREIF ODCE, 30% BC Agg Bond, 5% 1-10 yr TIPS; From 1/2010 14% R1000 Value, 14% R1000 Growth, 12% S&P 400 Mid cap, 15% MSCI EAFE , 5% Wilshire REIT, 35% BC Agg Bond, 5% 1-10 yr TIPS; From 1/2010 14% R1000 Value, 14% R1000 Growth, 12% S&P 400 Mid cap, 15% MSCI EAFE , 5% Wilshire REIT, 35% BC Agg Bond, 5% 1-10 yr TIPS; From 5/07 45% R3000, 10% EAFE, 10% Wilshire REIT, 35% LBAG; from 4/04 50% R3000, 10% EAFE,10% Wilshire REIT,30% LB Int Ag; from 4/03 45% R3000,10% EAFE,10% Wilshire REIT,35% LB Int Ag; from 1/03 60% S&P 500,40% ML Dom Bd; and from 6/02 50% S&P 500,50% ML Dom Bd.

2 Fixed Income Bnch: From 2/2014 100% BC Intermediate Aggregate; prior from 4/2012 100% BC Agg. Bond; From 5/07 100% LBAG; from 4/03 100% LB Int Agg; from 6/02 100% ML Dom Bd.

Note: The Fifth Third R&D cash account was increased by \$1,000,000 as of 12/31/16 due to the redemption from American Core Realty.

### Jupiter Police Officers' Retirement Fund Peer Universe Quartile Ranking September 30, 2017

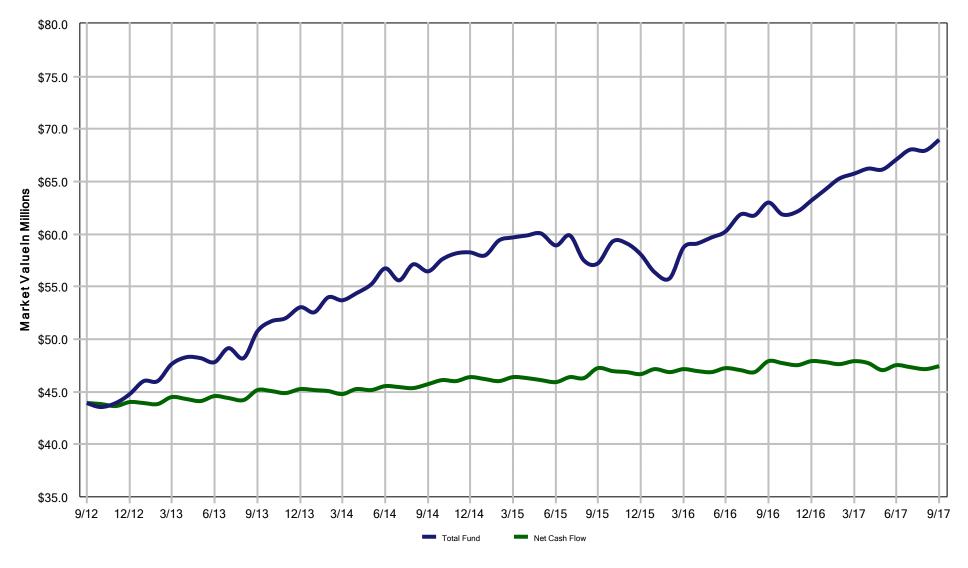


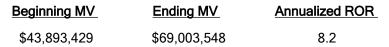
Parentheses contain percentile rankings.

Calculation based on quarterly data.

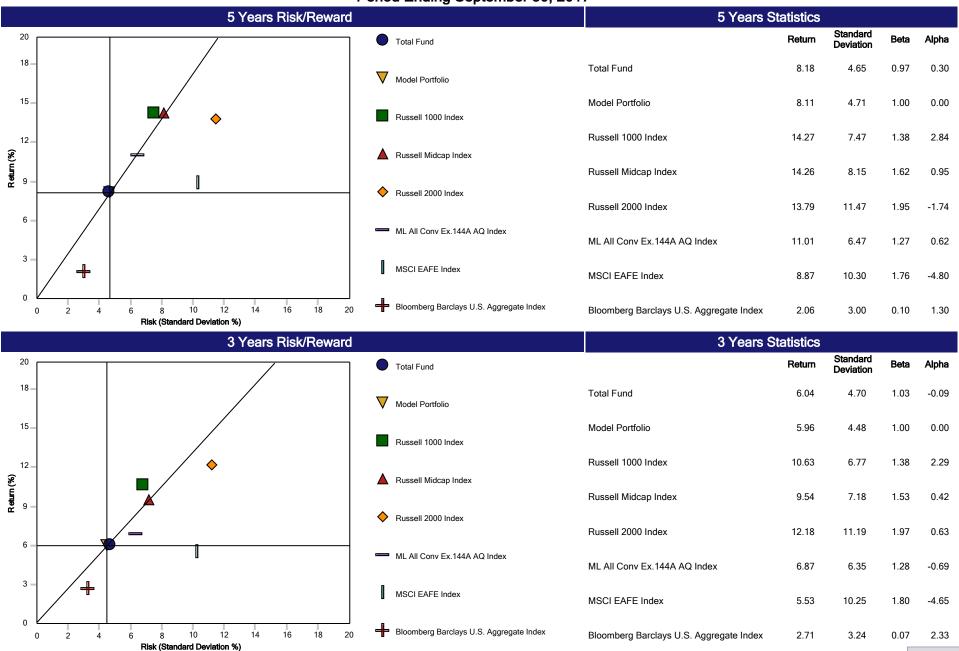
Median

Jupiter Police Officers' Retirement Fund Growth of Investments October 1, 2012 Through September 30, 2017

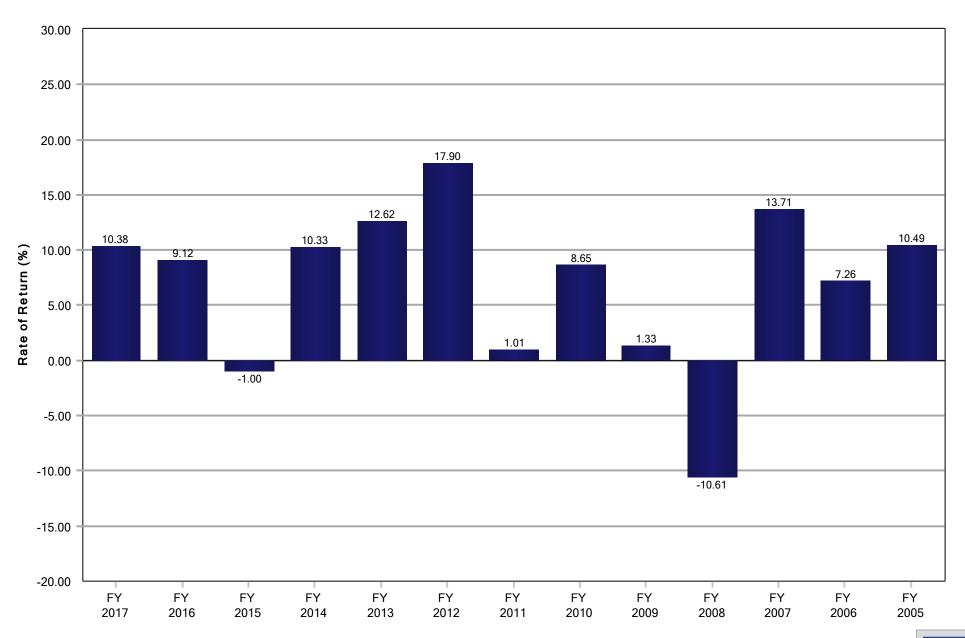




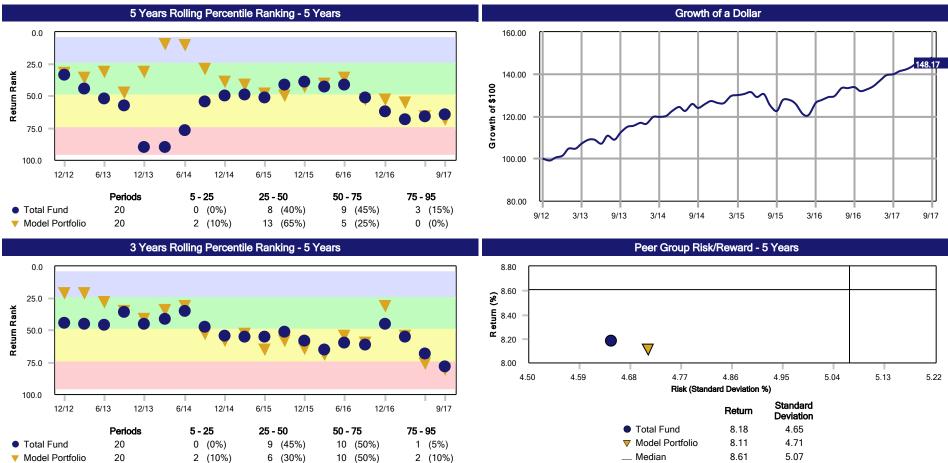
#### Jupiter Police Officers' Retirement Fund Capital Market Line Period Ending September 30, 2017



### Jupiter Police Officers' Retirement Fund Fiscal Year Rates of Return September 30, 2017



#### Jupiter Police Officers' Retirement Fund Total Fund September 30, 2017

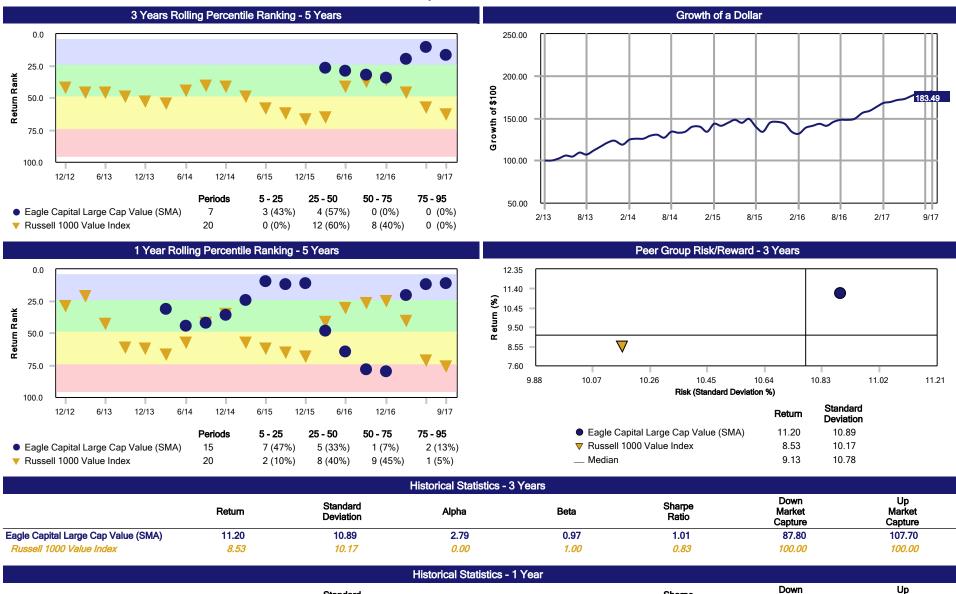


Historical Statistics - 5 Years

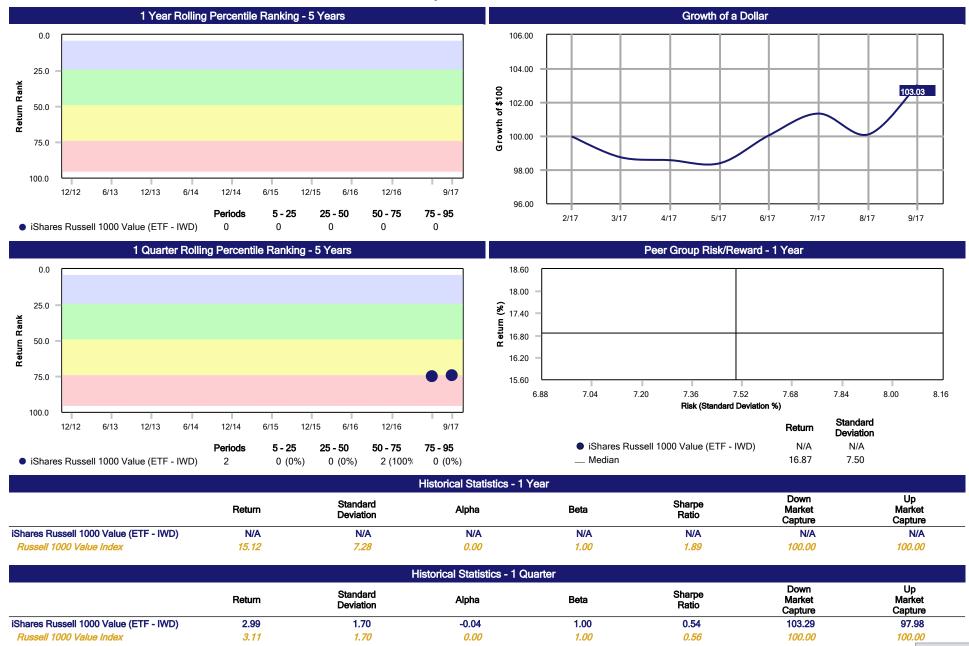
	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture
Total Fund	8.18	4.65	0.30	0.97	1.70	82.68	98.08
Model Portfolio	<i>8.11</i>	4.71	0.00	1.00	<i>1.66</i>	100.00	100.00

Historical Statistics - 3 Years									
Return Standard Alpha Beta Sharpe Down U Return Deviation Alpha Beta Ratio Capture Cap									
Total Fund	6.04	4.70	-0.09	1.03	1.24	96.66	100.36		
Model Portfolio	<i>5.96</i>	4.48	0.00	1.00	1.27	100.00	100.00		

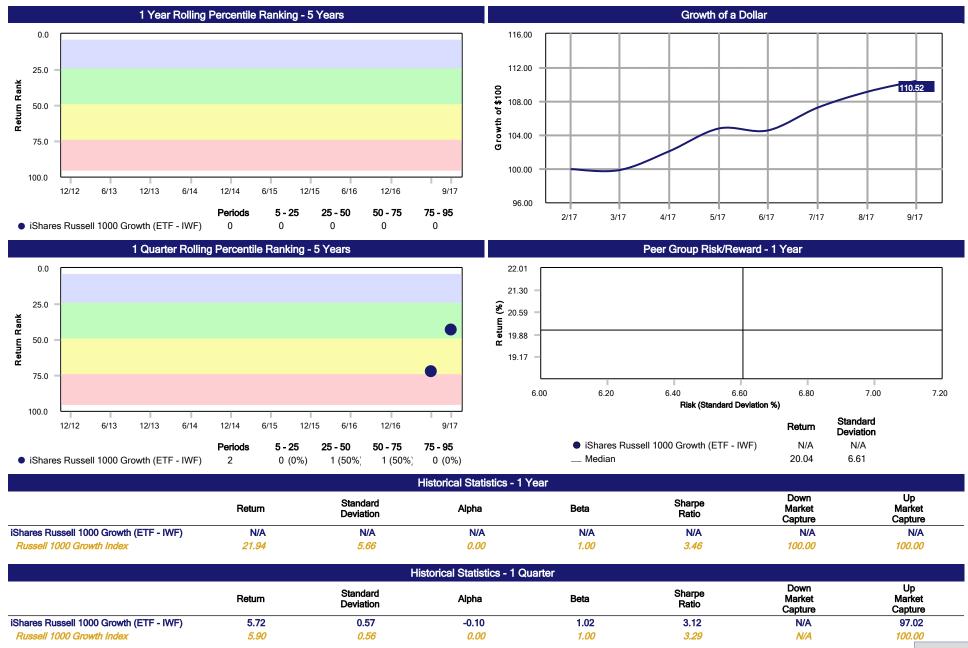
#### Jupiter Police Officers' Retirement Fund Eagle Capital Large Cap Value (SMA) September 30, 2017



#### Jupiter Police Officers' Retirement Fund iShares Russell 1000 Value (ETF - IWD) September 30, 2017

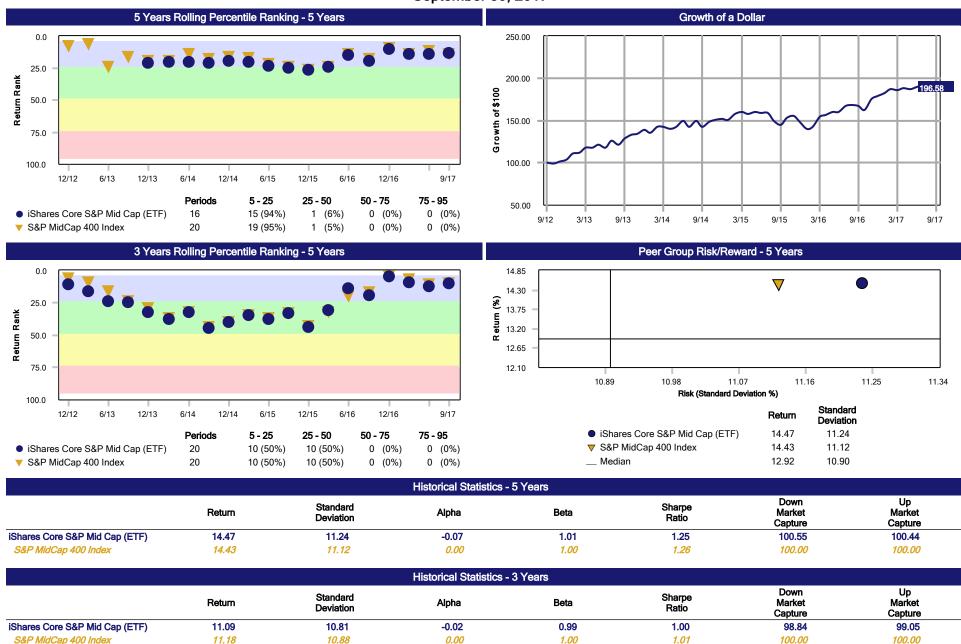


#### Jupiter Police Officers' Retirement Fund iShares Russell 1000 Growth (ETF - IWF) September 30, 2017



#### Jupiter Police Officers' Retirement Fund iShares Core S&P Mid Cap (ETF)

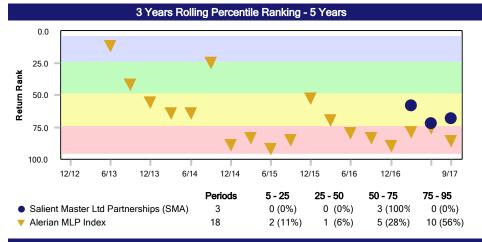
September 30, 2017

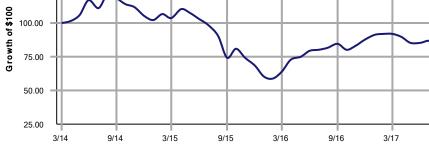


#### Jupiter Police Officers' Retirement Fund Salient Master Ltd Partnerships (SMA) September 30, 2017

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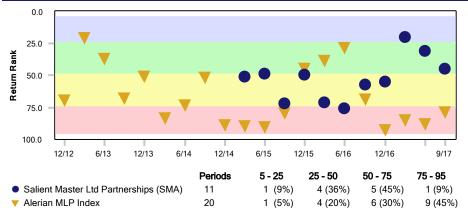
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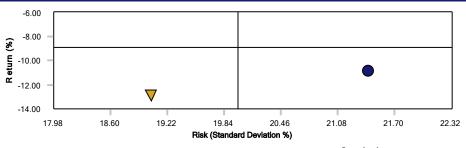


Growth of a Dollar

#### 1 Year Rolling Percentile Ranking - 5 Years



Peer Group Risk/Reward - 3 Years



	Return	Standard Deviation
<ul> <li>Salient Master Ltd Partnerships (SMA)</li> </ul>	-10.85	21.42
▼ Alerian MLP Index	-12.93	19.04
Median	-8.87	19.99

Historical Statistics - 3 Years

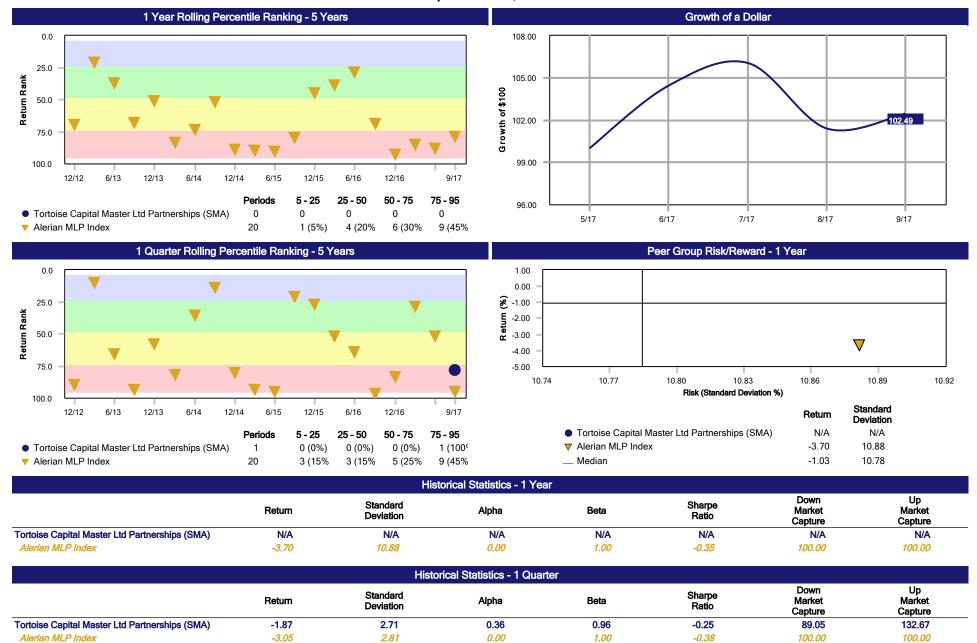
	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture
Salient Master Ltd Partnerships (SMA)	-10.85	21.42	3.94	1.09	-0.44	102.08	117.19
Alerian MLP Index	<i>-12.93</i>	<i>19.04</i>	0.00	1.00	<i>-0.64</i>	100.00	100.00

Historical Statistics - 1 Year									
Return Standard Alpha Beta Sharpe Down Return Deviation Alpha Beta Ratio Capture Ca									
Salient Master Ltd Partnerships (SMA)	-0.23	11.96	3.97	1.08	-0.01	99.68	125.79		
Alerian MLP Index	-3.70	<i>10.88</i>	0.00	1.00	<i>-0.35</i>	100.00	100.00		

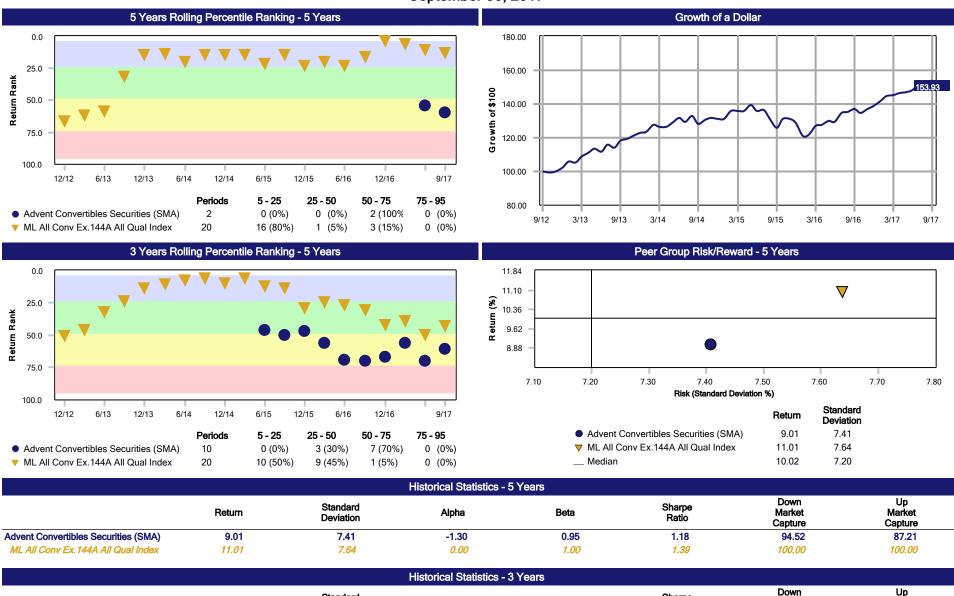
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9/17

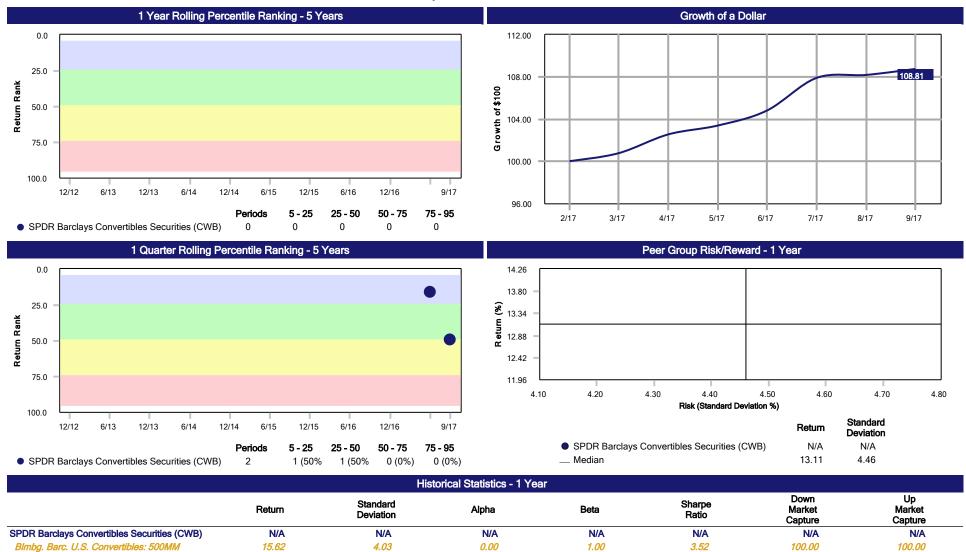
#### Jupiter Police Officers' Retirement Fund Tortoise Capital Master Ltd Partnerships (SMA) September 30, 2017



#### Jupiter Police Officers' Retirement Fund Advent Convertibles Securities (SMA) September 30, 2017

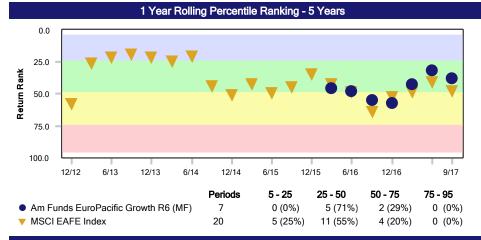


#### Jupiter Police Officers' Retirement Fund SPDR Barclays Convertibles Securities (CWB) September 30, 2017

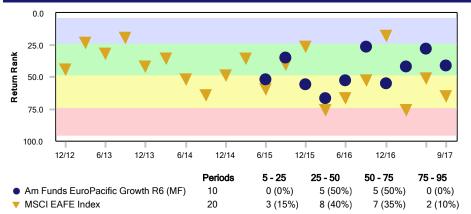


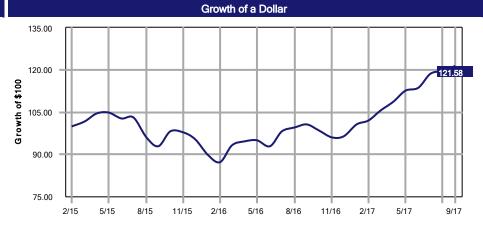
Historical Statistics - 1 Quarter								
	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture	
SPDR Barclays Convertibles Securities (CWB)	3.79	1.25	-0.08	0.97	0.93	N/A	90.95	
Blmbg. Barc. U.S. Convertibles: 500MM	4.17	1.29	0.00	1.00	1.00	N/A	100.00	

#### Jupiter Police Officers' Retirement Fund Am Funds EuroPacific Growth R6 (MF) September 30, 2017

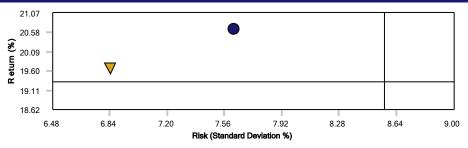


#### 1 Quarter Rolling Percentile Ranking - 5 Years





#### Peer Group Risk/Reward - 1 Year



	Return	
Am Funds EuroPacific Growth R6 (MF)	20.67	7.62
MSCI EAFE Index	19.65	6.84
— Median	19.33	8.57

#### Historical Statistics - 1 Year

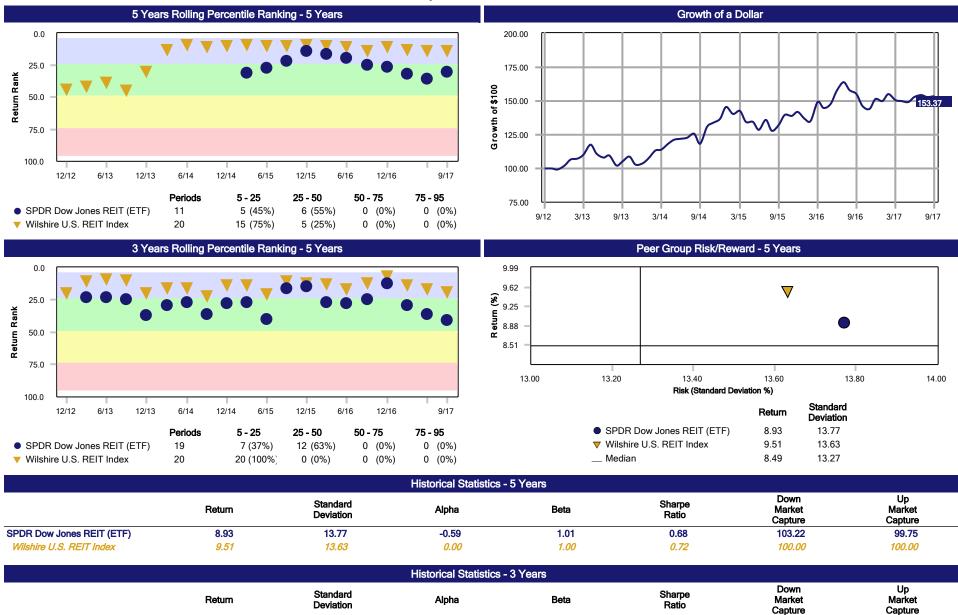
	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture
Am Funds EuroPacific Growth R6 (MF)	20.67	7.62	2.17	0.93	2.45	66.10	97.75
MSCI EAFE Index	<i>19.65</i>	6.84	0.00	1.00	2.59	100.00	100.00

Historical Statistics - 1 Quarter							
	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture
Am Funds EuroPacific Growth R6 (MF)	6.86	1.47	0.78	0.82	1.47	-3,863.60	107.30
MSCI EAFE Index	5.47	<i>1.30</i>	0.00	1.00	1.31	100.00	100.00

## Jupiter Police Officers' Retirement Fund

SPDR Dow Jones REIT (ETF)

September 30, 2017



99.91

100.00

1.01

1.00

0.65

0.69

104.04

100.00

-0.69

0.00

SPDR Dow Jones REIT (ETF)

Wilshire U.S. REIT Index

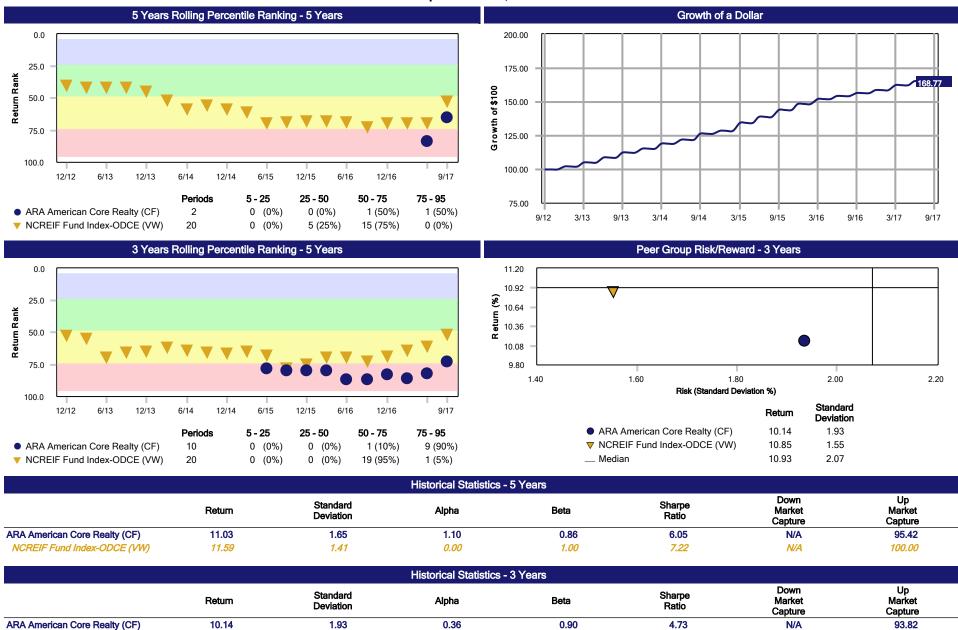
8.96

9.65

14.50

14.39

#### Jupiter Police Officers' Retirement Fund ARA American Core Realty (CF) September 30, 2017



100.00

1.00

6.06

N/A

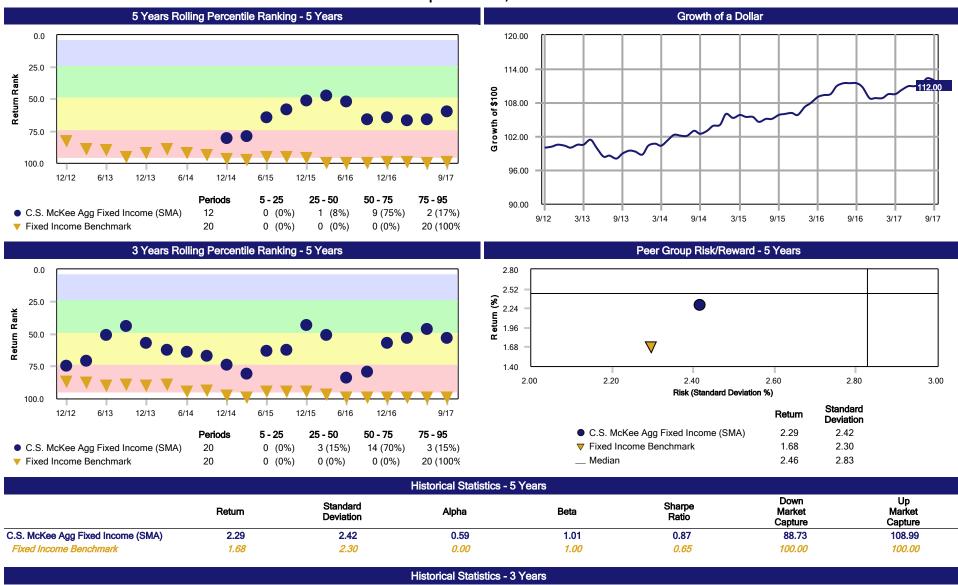
0.00

1.55

NCREIF Fund Index-ODCE (VW)

10.85

#### Jupiter Police Officers' Retirement Fund C.S. McKee Agg Fixed Income (SMA) September 30, 2017



	Return	Standard Deviation	Alpha	Beta	Sharpe Ratio	Down Market Capture	Up Market Capture
C.S. McKee Agg Fixed Income (SMA)	3.00	2.28	0.51	1.10	1.18	88.40	114.44
Fixed Income Benchmark	2.25	2.00	0.00	1.00	<i>0.98</i>	100.00	100.00

#### Jupiter Police Officers' Retirement Fund Glossary September 30, 2017

-ACCRUED INTEREST- Bond interest earned since the last interest payment, but not yet received.

-ALPHA- A linear regressive constant that measures expected return independent of Beta.

-ASSET ALLOCATION- The division of portfolio asset classes in order to achieve an expected investment objective.

-BALANCED UNIVERSES - Public Funds, Endowments & Foundations, Corporate peer groups, and PSN peer groups.

-BETA- A measure of portfolio sensitivity (volatility) in relation to the market, based upon past experience.

-BOND DURATION- A measure of portfolio sensitivity to interest rate risk.

-COMMINGLED FUND- An investment fund which is similar to a mutual fund in that investors are permitted to purchase and redeem units that represent ownership in a pool of securities.

-CONVERTIBLE BONDS - Hybrid securities' that offer equity returns during rising equity markets and improved down-market protection.

-CORE- An equal weighting in both growth and value stocks.

-CORRELATION COEFFICIENT- A measure of how two assets move together. The measure is bounded by +1 and -1; +1 means that the two assets move together positively, while a measure of -1 means that the assets are perfectly negatively correlated.

-GROWTH MANAGER- Generally invests in companies that have either experienced above-average growth rates and/or are expected to experience above-average growth rates in the future. Growth portfolios tend to have high price/earnings ratios and generally pay little to no dividends.

-INDEXES- Indexes are used as "independent representations of markets" (e.g., S&P 500).

-INFORMATION RATIO- Annualized excess return above the benchmark relative to the annualized tracking error.

-LARGE CAP- Generally, the term refers to a company that has a market capitalization that exceeds \$10 billion.

-MANAGER UNIVERSE- A collection of quarterly investment returns from various investment management firms that may be subdivided by style (e.g. growth, value, core).

-MID CAP- Generally, the term refers to a company that has a market capitalization between \$2 and \$10 billion.

-NCREIF - A quarterly time series composite total rate of return measure of investment performance of a large pool of individual commercial real estate properties acquired in the private market for investment purposes only.

-NCREIF ODCE - Open End Diversified Core Equity index which consists of historical and current returns from 26 open-end commingled funds pursuing core strategy. This index is capitalization weighted, time weighted and gross of fees.

-NET- Investment return accounts only for manager fees.

-PROTECTING FLORIDA INVESTMENT ACT (PFIA) - SBA publishes a list of prohibited investments (scrutinized companies).

-RATE OF RETURN- The percentage change in the value of an investment in a portfolio over a specified time period, excluding contributions.

-RISK MEASURES- Measures of the investment risk level, including beta, credit, duration, standard deviation, and others that are based on current and historical data.

-R-SQUARED- Measures how closely portfolio returns and those of the market are correlated, or how much variation in the portfolio returns may be explained by the market. An R2 of 40 means that 40% of the variation in a fund's price changes could be attributed to changes in the market index over the time period.



#### Jupiter Police Officers' Retirement Fund Glossary September 30, 2017

-SHARPE RATIO- The ratio of the rate of return earned above the risk-free rate to the standard deviation of the portfolio. It measures the number of units of return per unit of risk.

-SMALL CAP- Generally refers to a company with a market capitalization \$300 million to \$2 billion.

-STANDARD DEVIATION- Measure of the variability (dispersion) of historical returns around the mean. It measures how much exposure to volatility was experienced by the implementation of an investment strategy.

-SYSTEMATIC RISK- Measured by beta, it is the risk that cannot be diversified away (market risk).

-TIME WEIGHTED (TW) RETURN - A measure of the investments versus the investor. When there are no flows the TW & DOLLAR weighted (DW) returns are the same and vice versa.

-TRACKING ERROR- A measure of how closely a manager's performance tracks an index; it is the annualized standard deviation of the differences between the quarterly returns for the manager and the benchmark.

-TREYNOR RATIO- A measure of reward per unit of risk. (excess return divided by beta).

-UP AND DOWN-MARKET CAPTURE RATIO- Ratio that illustrates how a manager performed relative to the market during rising and declining market periods.

-VALUE MANAGER- Generally invests in companies that have low price-to-earnings and price-to-book ratios and/or above-average dividend yields.



#### Jupiter Police Officers' Retirement Fund Disclosure September 30, 2017

Advisory services are offered through or by Burgess Chambers and Associates, Inc., a registered SEC investment advisor.

Performance Reporting:

1. Changes in portfolio valuations due to capital gains or losses, dividends, interest, income and management fees are included in the calculation of returns. All calculations are made in accordance with generally accepted industry standards.

2. Transaction costs, such as commissions, are included in the purchase cost or deducted from the proceeds or sale of a security. Differences in transaction costs may affect comparisons.

3.Individual client returns may vary due to a variety of factors, including differences in investment objectives, asset allocating and timing of investment decisions.

4.Performance reports are generated from information supplied by the client, custodian, and/or investment managers. BCA relies upon the accuracy of this data when preparing reports.

5. The market indexes do not include transaction costs, and an investment in a product similar to the index would have lower performance dependent upon costs, fees, dividend reinvestments, and timing. Benchmarks and indexes are for comparison purposes only, and there is no assurance or guarantee that such performance will be achieved.

6.Performance information prepared by third party sources may differ from that shown by BCA. These differences may be due to different methods of analysis, different time periods being evaluated, different pricing sources for securities, treatment of accrued income, treatment of cash, and different accounting procedures.

7.Certain valuations, such as alternative assets, ETF, and mutual funds, are prepared based on information from third party sources, the accuracy of such information cannot be guaranteed by BCA. Such data may include estimates and maybe subject to revision.

8.BCA has not reviewed the risks of individual security holdings.

9.BCA investment reports are not indicative of future results.

10. Performance rankings are time sensitive and subject to change.

11. Mutual Fund (MF) and ETF returns are presented net of fees and ranked in net of fee universes.

12. Separately Managed Account (SMA) and Commingled Fund (CF) returns are presented gross of fees and ranked in gross of fees universes.

13. Composite returns are reported gross of fees and ranked in universes that encompass both gross and net of fee returns.

14. Total Fund returns are presented gross of fees and ranked in a gross of fee universe.

15. For a free copy of Part II (mailed w/i 5 bus. days from request receipt) of Burgess Chambers & Associates, Inc.'s most recent Form ADV which details pertinent business procedures, please contact: 407-644-0111, info@burgesschambers.com, 315 East Robinson Street Suite #690, Orlando, Florida 32801.