



LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Portfolio Performance Review

Quarter Ending March 31, 2014

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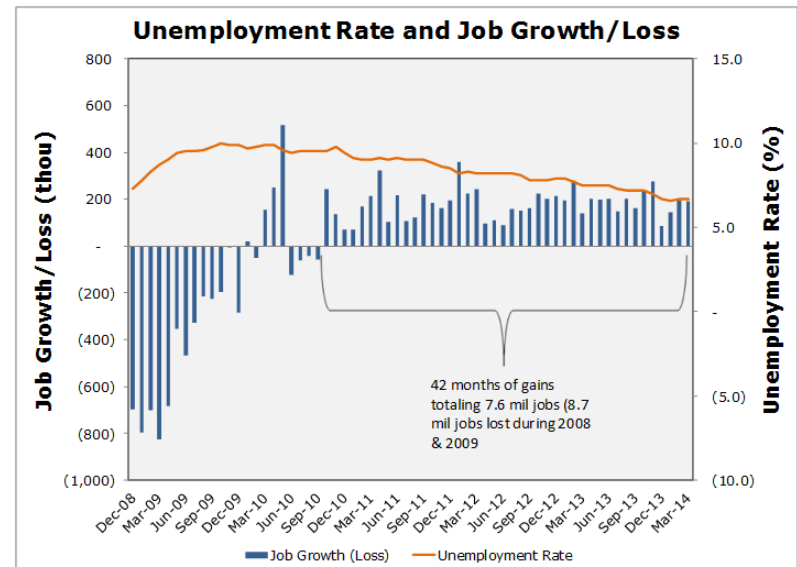
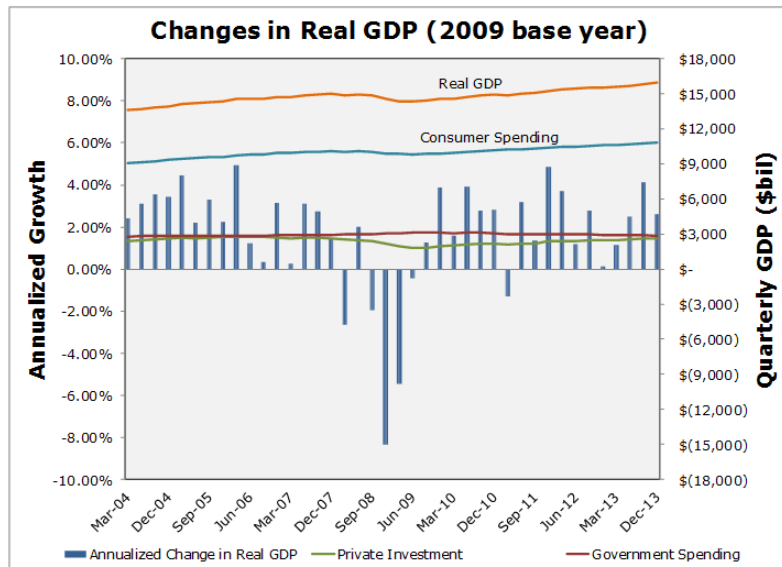


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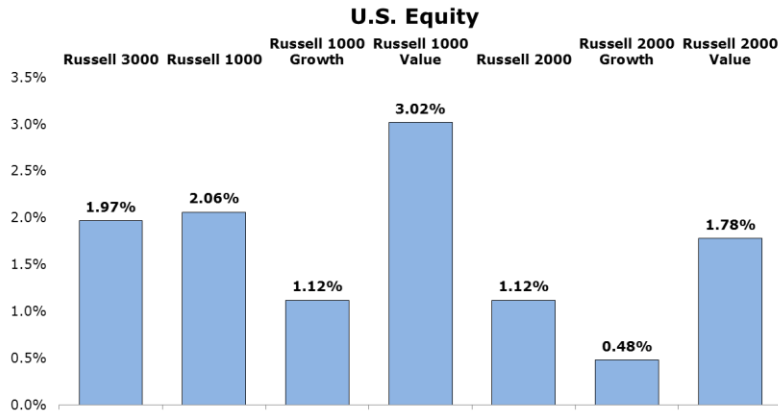
Executive Summary

March 31, 2014		Key Economic Indicators			
CPI (all items) Seasonally adjusted	Monthly Change	Cumulative Change			
	Mar-14	0.2	3-Month	0.4	
	Feb-14	0.1	12-Month	1.5	
	Jan-14	0.1	10-Yr Annual	2.3	
Breakeven Inflation	10-Year	2.2			
Consumer Sentiment Unv. of Michigan Survey	Mar-14	80.0			
	Feb-14	81.6			
	1-Yr Ago	78.6	10-Yr Avg	77.7	
Manufacturing Inst. for Supply Mgmt Purchasing Mngrs' Idx	Mar-14	53.7	Change in Manufacturing Sector		
	Feb-14	53.2	>50	Expansion	
	1-Yr Avg	53.9	<50	Contraction	

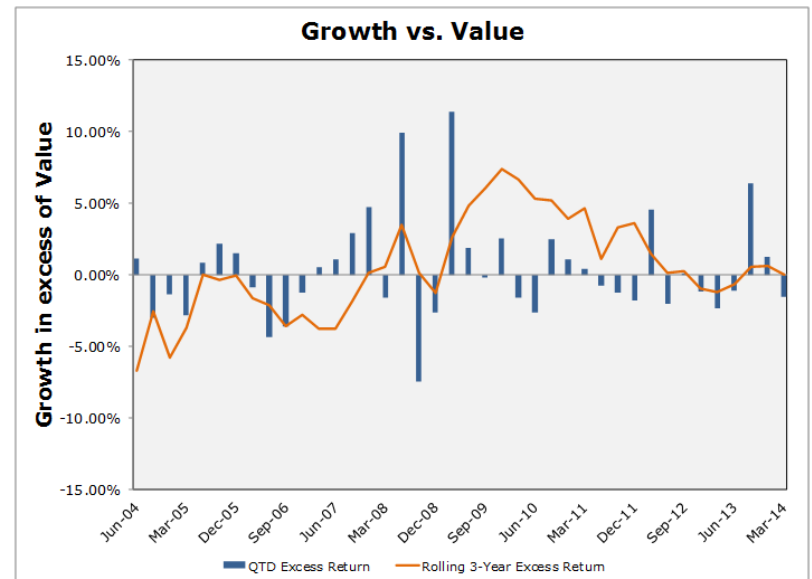
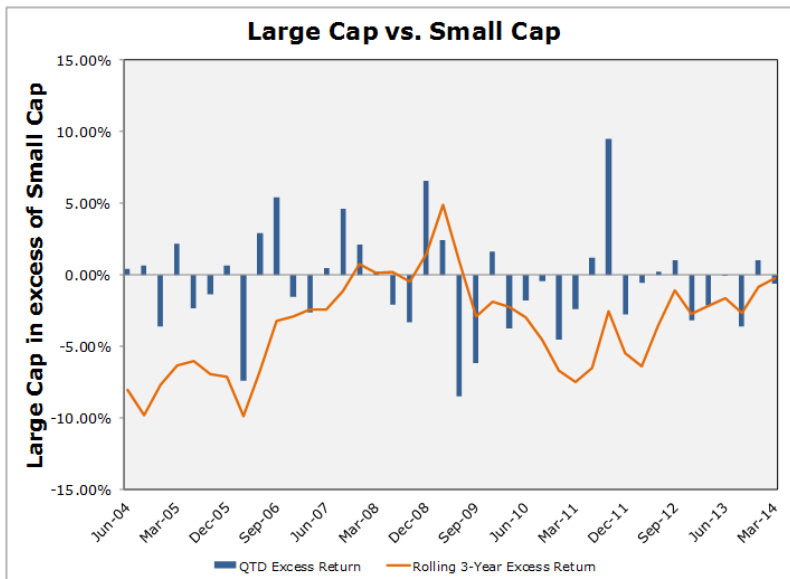
Note: Seasonally adjusted CPI data is utilized to better reflect short-term pricing activity.



Data sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve Bank of St. Louis, Barclays Capital

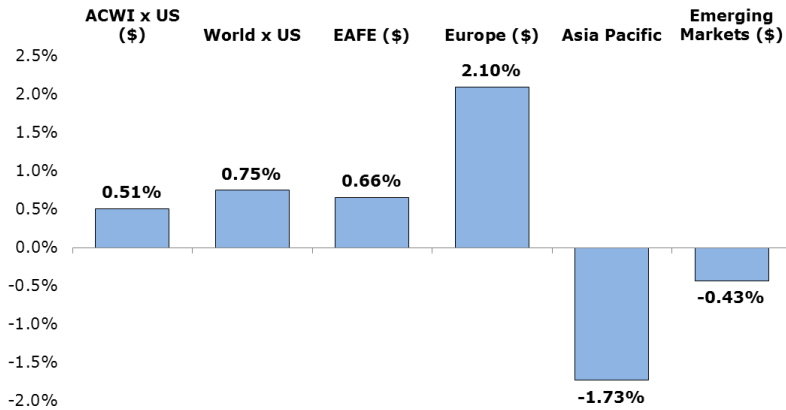


- U.S. stock market, as represented by the Russell 3000 Index, posted a return of 2.0% for the first quarter of 2014.
- Large cap value stocks performed strongest for the quarter.



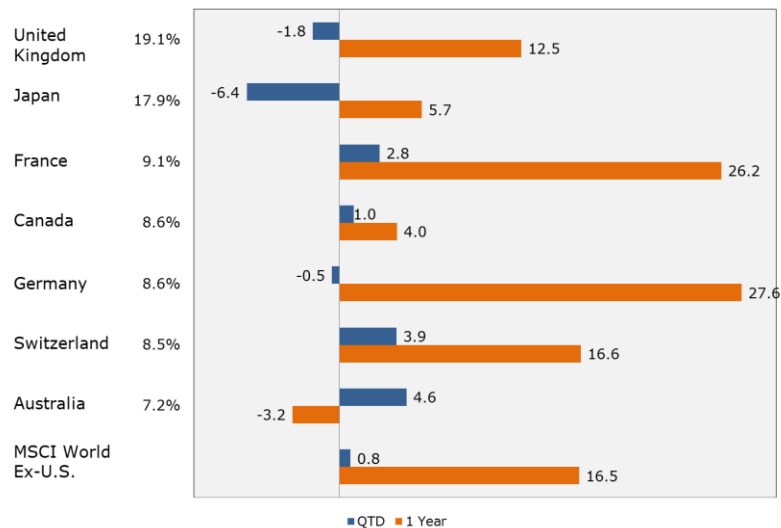
Data sources: Wilshire Compass, Wilshire Atlas

Non-U.S. Equity

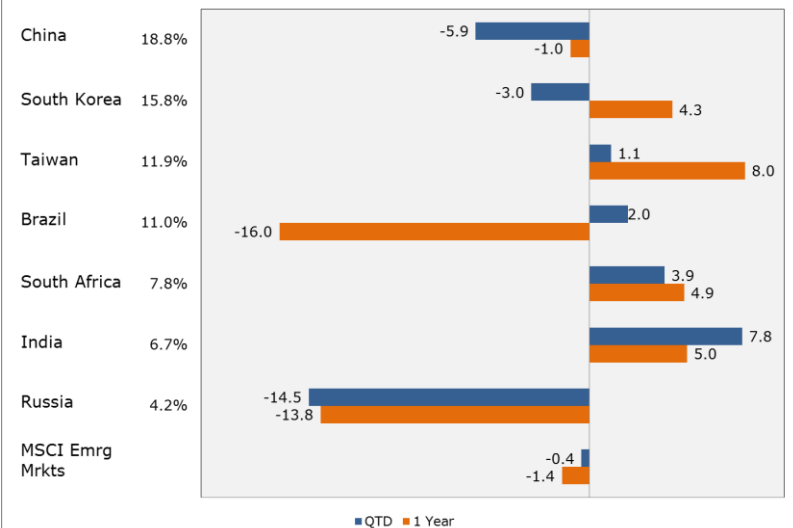


- Global equity markets also had a positive return for the quarter, with a return of 0.5% for the MSCI ACWI ex-U.S. Index.
- Emerging Markets returned -0.4% for the quarter as political uncertainties and economic slowdowns dampened returns.

MSCI World Ex-U.S.: Largest Countries and Return

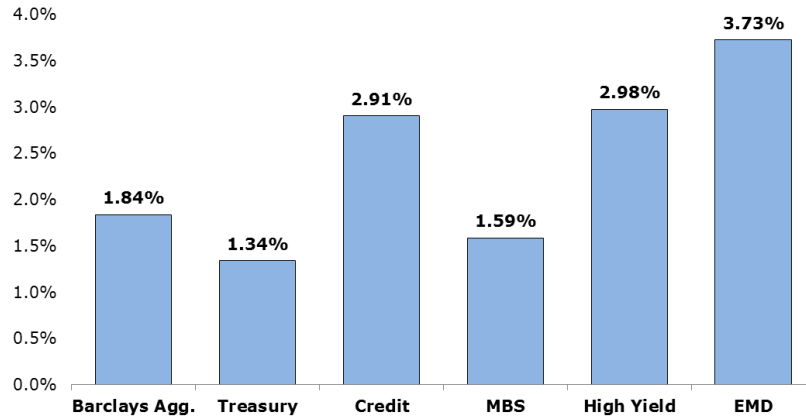


MSCI EM: Largest Countries and Return

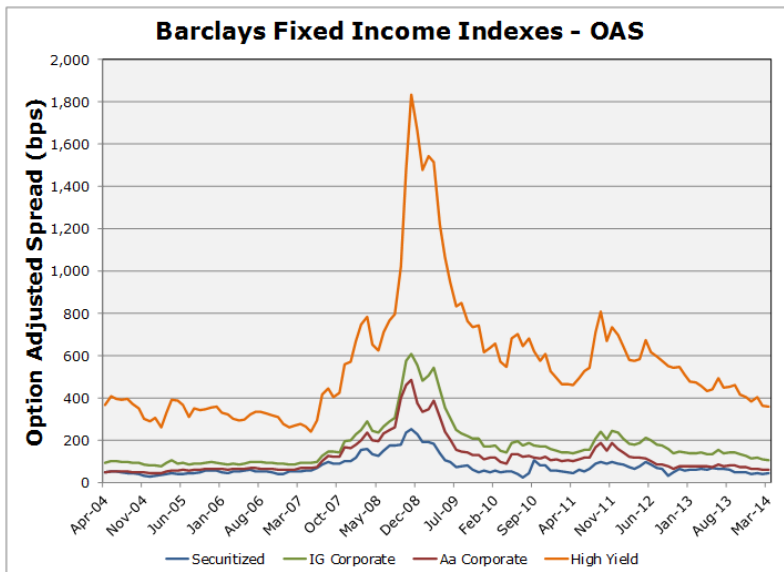


Data sources: Wilshire Compass, MSCI Barra

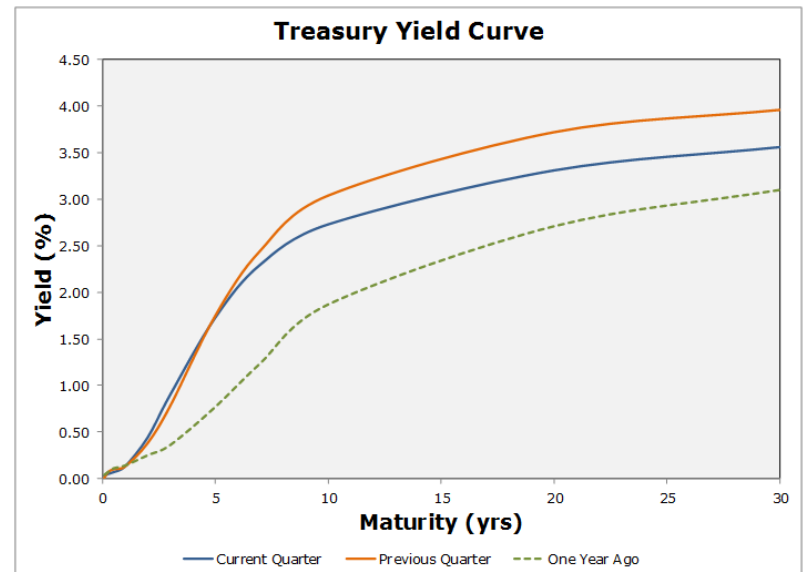
Fixed Income



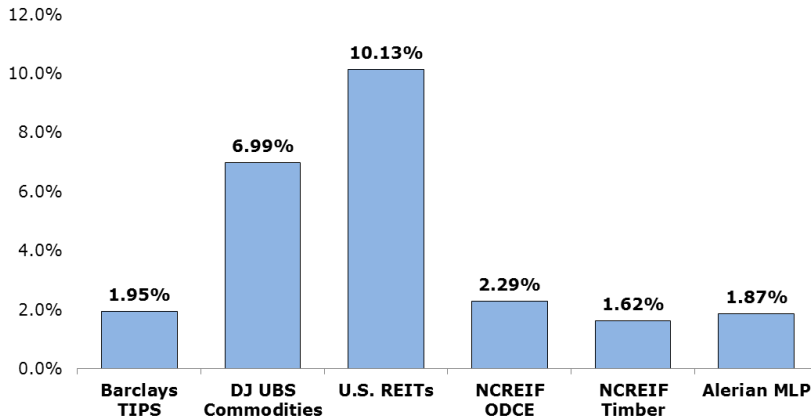
- Fixed Income, as represented by the Barclays U.S. Aggregate Index, returned 1.8% for the quarter.
- Ten-Year Treasury yields fell during 1Q14 settling at 2.73%, 31 basis points lower than 4Q13.
- Yields declined at maturities of 5 years and longer.



Data sources: Wilshire Compass, Barclays Capital, U.S. Treasury

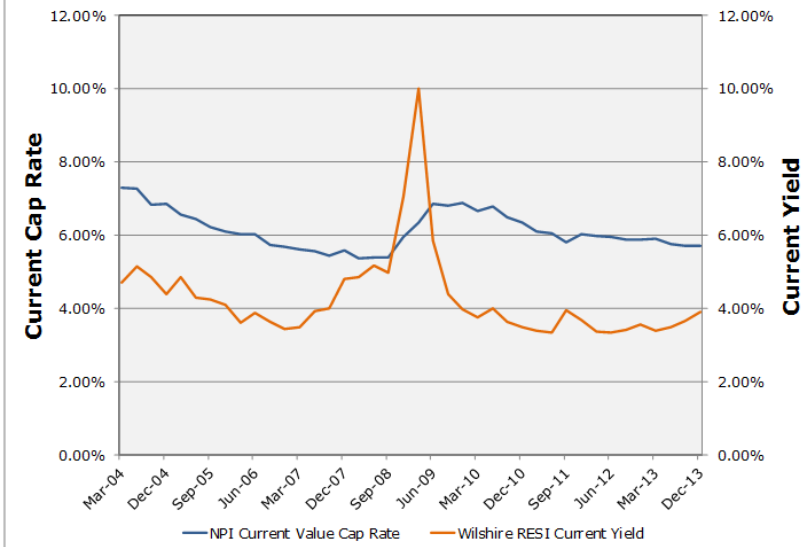


Real Assets

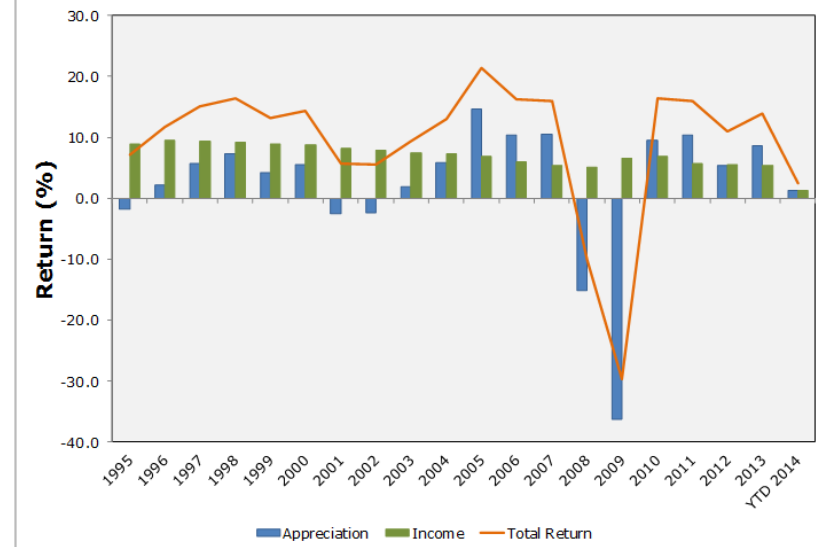


- TIPS, as represented by the Barclays U.S. TIPS Index, returned 2.0% for the quarter as real rates fell across bonds with maturities of five years or greater.
- REITs, as represented by the Wilshire U.S. REIT Index, returned 10.1% for the quarter.
- Commodities also experienced a positive return, led by the precious metals sector.

Real Estate Valuation



NCREIF ODCE Fund Index Return



Data sources: Wilshire Compass, National Council of Real Estate Investment Fiduciaries

Performance Overview

- *LACERS' investment portfolio ended the quarter with a market value of \$13.6 billion, a gain of \$0.1 billion from the previous quarter. The Fund's net of fee return was 2.1% for the quarter and 14.7% for the one-year period.*
- *The Total Fund outperformed its policy benchmark by 0.4% for the quarter and outperformed by 1.5% for the one-year period.*
- *In a comparison to other public funds with market values greater than \$10 billion in TUCS (Trust Universe Comparison Service) peer universe, LACERS ranked in the 54th percentile for the quarter and in the 20th percentile for the one-year period.*
- *All asset classes produced positive returns for the quarter.*
- *Non-U.S. Equity, Core Fixed Income, and Credit Opportunities outperformed their respective benchmarks for the quarter.*
- *Private Equity¹ and Private Real Estate outperformed their respective benchmarks for the quarter.*

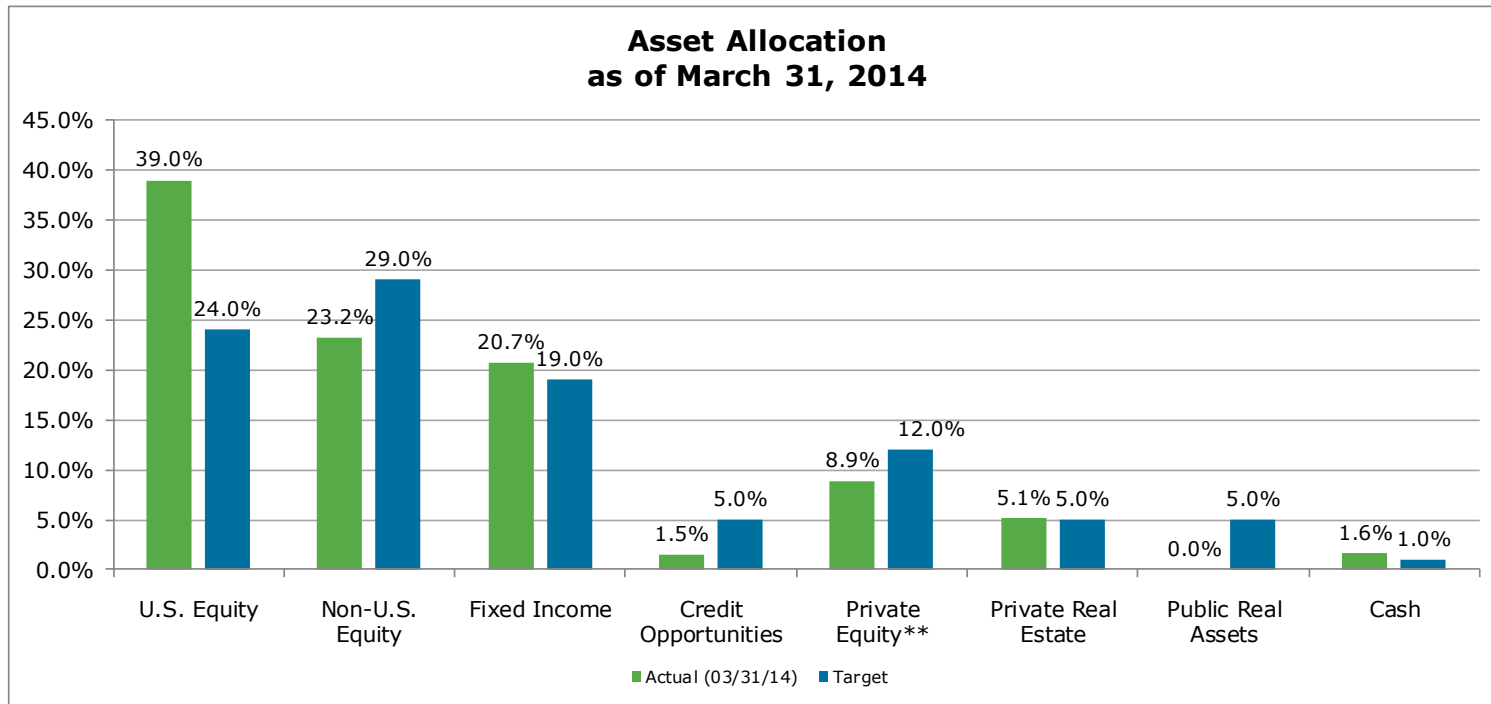
Note: Due to the J-curve effect in early stages of a private equity fund's life, returns may lag prior to realization of proceeds in later years.

¹Name change from "Alternative Investments."



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Fund Overview



	Actual	Target*	Min.	Max
U.S. Equity	39.0%	24.0%	19.0%	29.0%
Non-U.S. Equity	23.2%	29.0%	24.0%	34.0%
Fixed Income	20.7%	19.0%	15.0%	22.0%
Credit Opportunities	1.5%	5.0%	0.0%	10.0%
Private Equity**	8.9%	12.0%	n/a	n/a
Private Real Estate	5.1%	5.0%	n/a	n/a
Public Real Assets	0.0%	5.0%	2.0%	8.0%
Cash	1.6%	1.0%	0.0%	2.0%

* Revised 1st Qtr 2012: decrease U.S. Equity from 37% to 24%; increase Non-U.S. Equity from 20% to 29%; decrease Fixed Income from 26% to 19%; allocate 5% in Credit Opportunities; increase Alternative Inv. from 9% to 12%; decrease Private Real Estate from 7% to 5%; allocate 5% in Public Real Assets. On May 13, 2014, an updated implementation plan was adopted by the Board to bring the asset classes within target ranges by September 30, 2014.

**Name change from "Alternative Investments."

Detail Actual vs Target Allocation

Asset Class / Style	Benchmark	Market Value (\$ Billion)	Market Value to Total Fund (%)	Target to Total Fund (%)	Difference from Target (%)
Equity		\$ 9.64	71.2%	65.0%	6.2%
U.S. Equity		\$ 5.29	39.0%	24.0%	15.0%
Passive		\$ 3.56	26.3%	17.5%	8.7%
Large Cap Core	S&P 500	3.41	25.2%	16.6%	8.6%
Large Cap Growth	Russell 1000 Growth	0.15	1.1%	1.0%	0.1%
Large Cap Value	Russell 1000 Value	0.00	0.0%	0.0%	0.0%
Active		\$ 1.73	12.8%	6.5%	6.3%
All Cap	Russell 3000	0.11	0.8%	0.2%	0.6%
Large Cap Core	S&P 500	-	0.0%	0.0%	0.0%
Large Cap Growth	Russell 1000 Growth	-	0.0%	0.0%	0.0%
Large Cap Value	Russell 1000 Value	0.48	3.6%	1.0%	2.6%
Mid Cap Core	Russell Mid Cap	0.07	0.5%	1.2%	-0.7%
Small Cap Core	Russell 2000	0.32	2.3%	1.2%	1.1%
Small Cap Growth	Russell 2000 Growth	0.37	2.7%	1.4%	1.3%
Small Cap Value	Russell 2000 Value	0.38	2.8%	1.4%	1.4%
Non-U.S. Equity		\$ 3.15	23.2%	29.0%	-5.8%
Passive		\$ 1.39	10.3%	10.2%	0.1%
World ex-U.S.	MSCI World ex-U.S.	1.39	10.3%	10.2%	0.1%
Active		\$ 1.75	12.9%	18.8%	-5.8%
European	MSCI Europe/10% Abs.	0.01	0.1%	0.0%	0.1%
Developed Core	MSCI EAFE/World ex-U.S.	0.57	4.2%	2.9%	1.3%
Developed Growth	MSCI EAFE/World ex-U.S. Growth	0.38	2.8%	2.9%	-0.1%
Developed Value	MSCI EAFE/World ex-U.S. Value	0.40	3.0%	2.9%	0.1%
Emerging Markets Core	MSCI Emerging Markets	0.30	2.2%	2.6%	-0.4%
Emerging Markets Growth	MSCI Emerging Market Growth	-	0.0%	2.3%	-2.3%
Emerging Markets Value	MSCI Emerging Market Value	-	0.0%	2.3%	-2.3%
Small Cap Core	MSCI EAFE Small Cap	0.09	0.7%	2.9%	-2.2%
Private Equity¹		\$ 1.21	8.9%	12.0%	-3.1%

¹ Name change from "Alternative Investments."

Detail Actual vs Target Allocation

Asset Class / Style	Benchmark	Market Value (\$ Billion)	Market Value to Total Fund (%)	Target to Total Fund (%)	Difference from Target (%)
Fixed Income		\$ 3.02	22.3%	24.0%	-1.7%
Core		\$ 2.81	20.7%	19.0%	1.7%
Passive	Barclays Capital (BC) Aggregate	\$ -	0.0%	6.7%	-6.7%
Active		\$ 2.81	20.7%	12.3%	8.5%
Core	Barclays Capital (BC) Aggregate	2.57	19.0%	10.4%	8.6%
Core Plus	Barclays Capital (BC) Universal	-	0.0%	0.0%	0.0%
Intermediate Core	BC U.S. Govt/Credit Intermediate	0.24	1.8%	1.9%	-0.1%
Credit Opportunities		\$ 0.21	1.5%	5.0%	-3.5%
U.S. High Yield	BC U.S. High Yield 2% Capped	0.21	1.5%	2.8%	-1.2%
Emerging Market Debt	JP Morgan - EMBI Global Diversified	-	0.0%	1.8%	-1.8%
Opportunistic Credit	TBD	-	0.0%	0.4%	-0.4%
Real Assets		\$ 0.70	5.1%	10.0%	-4.9%
Public Real Assets		\$ -	0.0%	5.0%	-5.0%
TIPS	BC U.S. TIPS	-	0.0%	3.0%	-3.0%
REITS	Wilshire REIT	-	0.0%	0.5%	-0.5%
Commodities	S&P-GSCI Total Index	-	0.0%	1.0%	-1.0%
Multi Asset Real Assets	CPI + 5%	-	0.0%	0.5%	-0.5%
Private Real Estate		\$ 0.70	5.1%	5.0%	0.1%
Cash		\$ 0.19	1.4%	1.0%	0.4%
TOTAL PORTFOLIO		\$ 13.55	100.0%	100.0%	0.0%

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Fund Performance

LACERS Total Fund

(Returns are Net of Fees)

	Market Value (\$million)	% to Total Fund	Current Quarter	One Year	Three Years	Five Years	Ten Years	Fifteen Years ¹	Since Inception ¹	5 Year Tracking Error
LACERS Master Trust	\$ 13,586	100.0%	2.1	14.7	10.0	14.9	7.2	7.0	8.6	2.0
<i>Policy Benchmark*</i>			<i>1.7</i>	<i>13.2</i>	<i>9.7</i>	<i>15.6</i>	<i>7.2</i>	<i>6.2</i>	<i>8.5</i>	
Excess Return			0.4	1.5	0.3	-0.7	0.0	0.8	0.1	
U.S. Equity	\$ 5,291	38.9%	1.8	23.4	14.0	21.9	7.7	6.5	10.5	1.3
<i>Russell 3000</i>			<i>2.0</i>	<i>22.6</i>	<i>14.6</i>	<i>21.9</i>	<i>7.9</i>	<i>5.1</i>	<i>9.1</i>	
Excess Return			-0.2	0.8	-0.6	0.0	-0.2	1.4	1.4	
Non-U.S. Equity	\$ 3,134	23.1%	0.6	15.0	5.8	16.4	7.3	6.2	5.5	1.4
<i>MSCI ACWI ex U.S.</i>			<i>0.5</i>	<i>12.3</i>	<i>4.1</i>	<i>15.5</i>	<i>7.1</i>	<i>5.2</i>	<i>5.9</i>	
Excess Return			0.1	2.7	1.7	0.9	0.2	1.0	-0.4	
Core Fixed Income	\$ 2,807	20.7%	2.3	0.8	--	--	--	--	3.2	--
<i>BC U.S. Aggregate</i>			<i>1.8</i>	<i>-0.1</i>	--	--	--	--	<i>1.4</i>	
Excess Return			0.5	0.9	--	--	--	--	1.8	
Credit Opportunities	\$ 209	1.5%	3.5	--	--	--	--	--	9.7	--
<i>BC U.S. Corp High Yield 2% Cap</i>			<i>3.0</i>	--	--	--	--	--	<i>9.1</i>	
Excess Return			0.5	--	--	--	--	--	0.6	
Private Real Estate **	\$ 701	5.2%	3.7	12.9	10.9	-2.2	3.6	5.2	6.2	10.2
<i>NCREIF Property Lagged + 100bps</i>			<i>2.8</i>	<i>12.1</i>	<i>12.6</i>	<i>6.1</i>	<i>8.8</i>	<i>9.0</i>	<i>9.6</i>	
Excess Return			0.9	0.8	-1.7	-8.3	-5.2	-3.8	-3.4	
Private Equity^{2**}	\$ 1,237	9.1%	5.5	19.2	14.4	14.5	13.1	11.6	10.4	16.1
<i>Russell 3000 + 300 bps</i>			<i>2.7</i>	<i>26.3</i>	<i>18.4</i>	<i>26.1</i>	<i>11.9</i>	<i>9.3</i>	<i>12.8</i>	
Excess Return			2.8	-7.1	-4.0	-11.6	1.2	2.3	-2.4	
Cash	\$ 207	1.5%								

¹ Indicates gross returns.

² Name change from "Alternative Investments" for performance book only.

* More detailed information available under Definitions section at the back of this presentation.

** Due to the J-Curve effect in early stages of a fund's life, returns may lag prior to realization of proceeds in later years.

Private Investments

Performance by IRR and Multiples¹

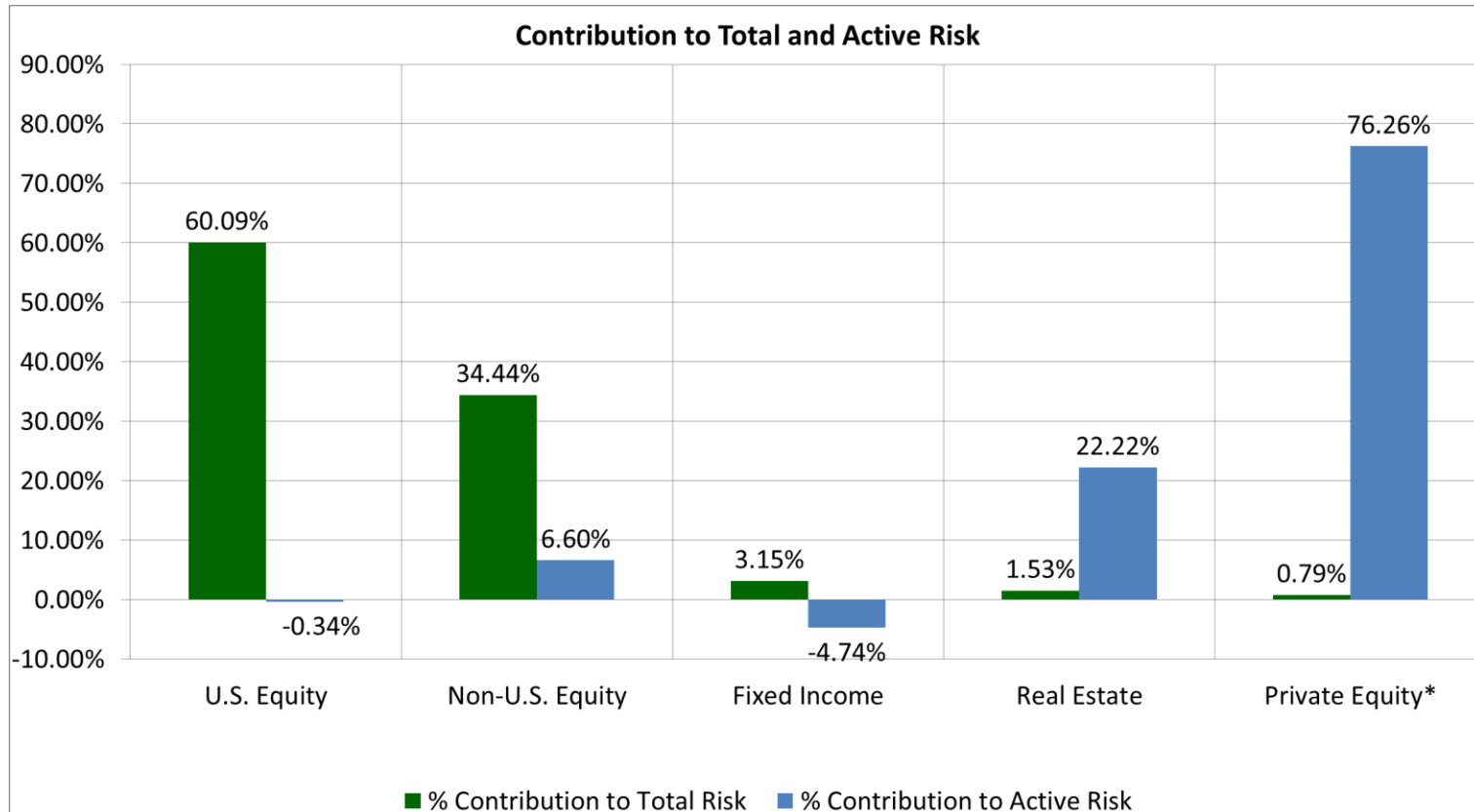
Private Equity	10-Year IRR	Since Inception IRR	Since Inception Equity Multiple
Aggregate Portfolio	13.3%	11.5%	1.5x
Core Portfolio	14.2%	12.0%	1.6x
Specialized Portfolio	N/A	2.9%	1.1x
<i>Russell 3000 + 300 bps</i>	<i>11.2%</i>	<i>9.6%</i>	<i>N/A</i>

Real Estate	10-Year Return	Since Inception Return	Since Inception Equity Multiple
Total Portfolio (TWR)	3.5%	5.5%	N/A
<i>NCREIF + 100 bps (TWR)</i>	<i>9.6%</i>	<i>8.5%</i>	<i>N/A</i>
Total Portfolio IRR	N/A	4.1%	1.2x

Note: Townsend could not provide cash flow weighted benchmark, so only time weighted return (TWR) is reported.

¹Returns as of 12/31/2013.

Total Fund – Contribution to 5-Year Total & Active Risk

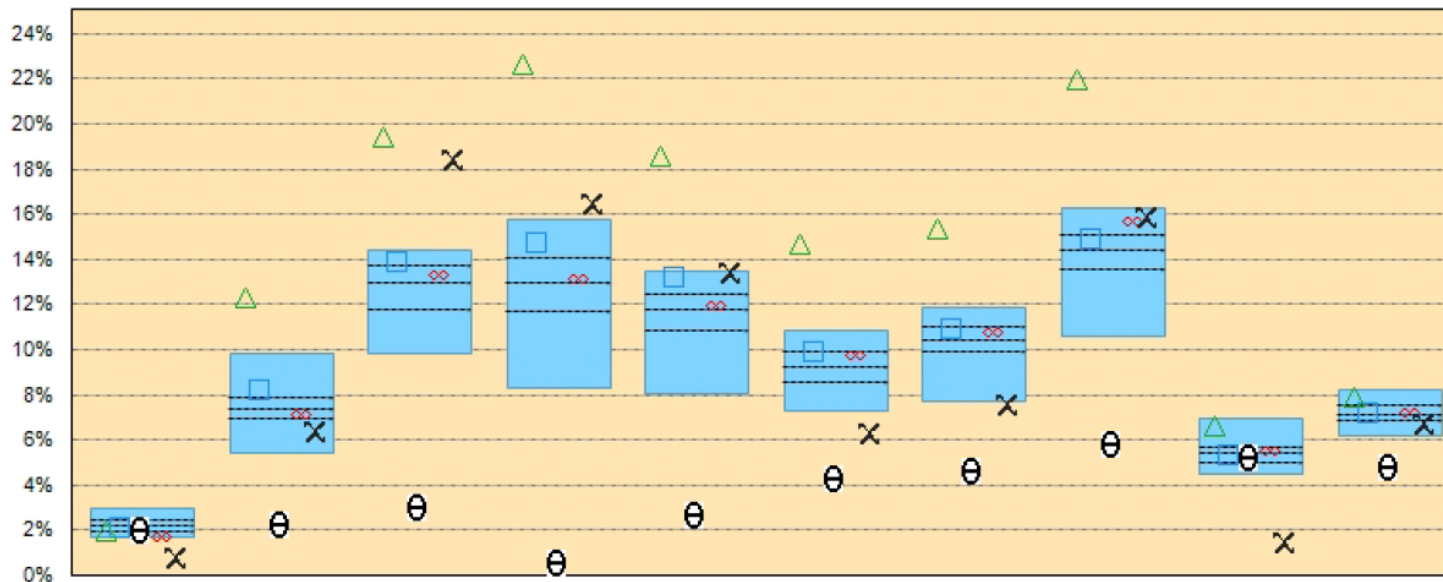


- Public equities comprises 94% of total risk despite actual weighting of 62%.
- Private markets (Real Estate and Private Equities) comprises 98% of active risk as it is difficult to separate active from 'beta' exposures in those asset classes.
- U.S. Equities and Fixed Income managers have provided modest active risk reduction.

*Name change from "Alternative Investments."

Trust Universe Comparison Service Performance Comparison

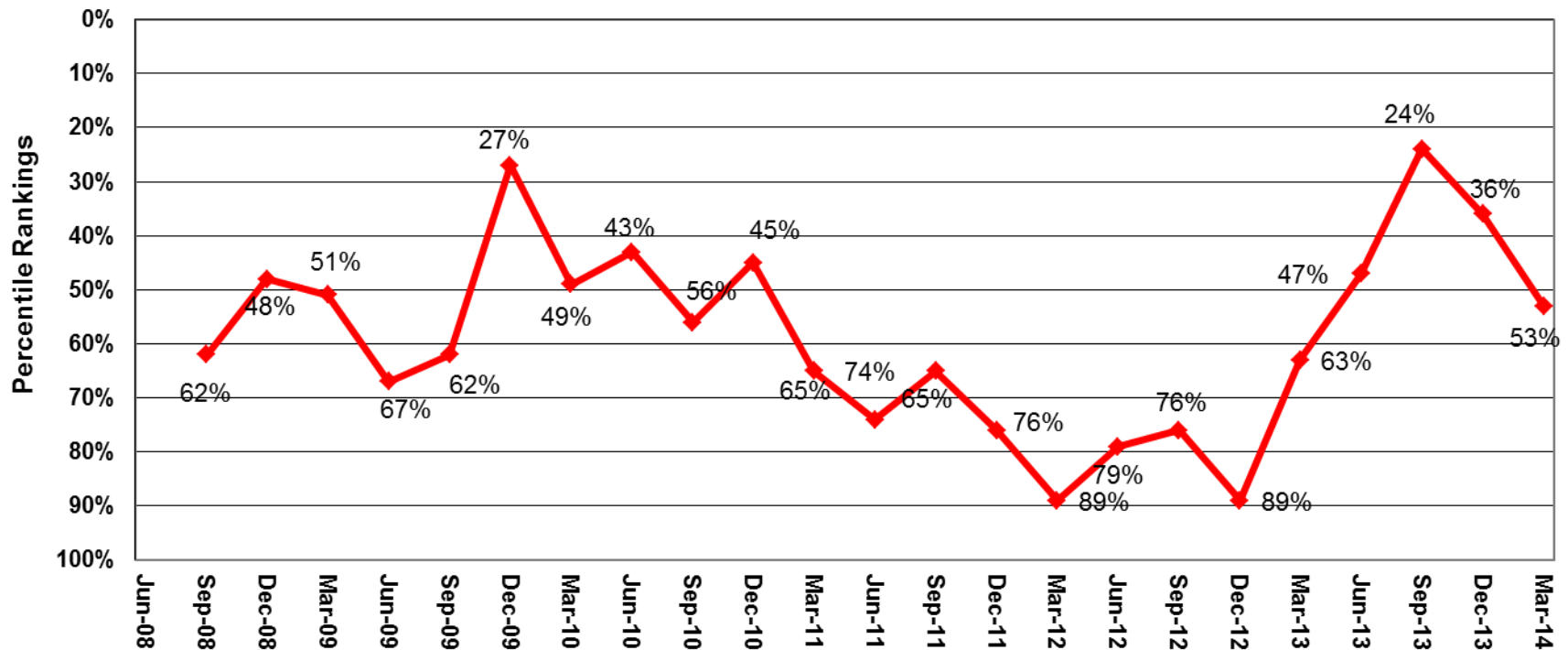
Total Returns of Public Defined Benefit Plans >\$10 billion
Cumulative Periods Ending : March 31, 2014



Percentile Rankings	1 Qtr	2 Qtrs	3 Qtrs	1 Year	2 Years	3 Years	4 Years	5 Years	7 Years	10 Years
5th	2.98	9.80	14.42	15.80	13.46	10.84	11.89	16.25	6.97	8.20
25th	2.42	7.91	13.72	14.06	12.49	9.91	10.99	15.11	5.69	7.50
50th	2.20	7.38	12.97	10.44	11.79	9.26	10.44	14.43	5.43	7.14
75th	1.94	6.97	11.78	11.68	10.85	8.59	9.90	13.60	5.04	6.88
95th	1.66	5.43	9.86	8.29	8.06	7.29	7.70	10.62	4.45	6.18
No. Of Obs	44	44	44	44	44	44	42	41	41	40
□ Total Fund NOF ⊗ Total Fund Policy △ Russell 3000 ✕ MSCI Wld Ex US (Net) ⊖ Barclays US Univ Indx	2.11 (54)	8.23 (14)	13.90 (18)	14.73 (20)	13.24 (12)	9.95 (22)	10.90 (30)	14.90 (40)	5.37 (52)	7.22 (42)
	1.72 (89)	7.13 (70)	13.29 (29)	13.17 (40)	11.92 (47)	9.75 (29)	10.75 (35)	15.65 (16)	5.48 (45)	7.24 (40)
	1.97 (68)	12.27 (1)	19.40 (1)	22.61 (1)	18.53 (1)	14.62 (1)	15.31 (1)	21.93 (1)	6.60 (5)	7.86 (10)
	0.75 (100)	6.34 (84)	18.37 (1)	16.46 (1)	13.40 (10)	6.27 (99)	7.58 (99)	15.87 (10)	1.47 (100)	6.71 (75)
	1.95 (72)	2.18 (100)	2.94 (100)	0.51 (100)	2.59 (100)	4.23 (100)	4.60 (100)	5.73 (100)	5.18 (65)	4.78 (100)

Return to Risk Ratio Comparison

TUCS Public Funds > \$10 billion



- Return to risk ratio comparison puts funds with different asset allocation objectives on even footing.
- LACERS currently ranks in the 53rd percentile versus peers on return/risk ratio basis.

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U.S. Equity Managers

U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
U.S. Equity	Oct-94	\$ 5,291	100.0%	1.8	23.4	14.0	21.9	7.7	10.5	1.3
<i>Russell 3000</i>				2.0	22.6	14.6	21.9	7.9	9.1	
Excess Return				-0.2	0.8	-0.6	0.0	-0.2	1.4	
Rhumblin Advisors (Passive) <i>S&P 500</i>	Mar-93	\$ 1,429	27.0%	1.8	21.8	14.6	21.2	7.6	9.4	0.3
				1.8	21.9	14.7	21.2	7.4	9.2	
Excess Return				0.0	-0.1	-0.1	0.0	0.2	0.2	
Blackrock S&P 500 (Passive) <i>S&P 500</i>	Jun-13	\$ 1,983	37.5%	1.8	--	--	--	--	18.4	--
				1.8	--	--	--	--	18.4	
Excess Return				0.0	--	--	--	--	0.0	
Rhumblin Advisors (Passive) <i>Russell 1000 Growth</i>	Jun-13	\$ 145	2.7%	1.1	--	--	--	--	20.7	--
				1.1	--	--	--	--	20.3	
Excess Return				0.0	--	--	--	--	0.4	
Aronson, Johnson & Ortiz <i>Russell 1000 Value</i>	Oct-01	\$ 484	9.1%	2.5	25.8	16.6	21.8	8.3	9.2	2.8
				3.0	21.6	14.8	21.8	7.6	7.8	
Excess Return				-0.5	4.2	1.8	0.0	0.7	1.4	
New Mountain Cap Group <i>Russell Midcap*</i>	Mar-08	\$ 73	1.4%	2.1	13.2	7.0	12.9	--	6.6	9.8
				3.5	23.5	14.3	20.9	--	7.4	
Excess Return				-1.4	-10.3	-7.3	-8.0	--	-0.8	

¹ Indicates gross returns.

* Changed from the S&P 500 Index on July 1, 2011.

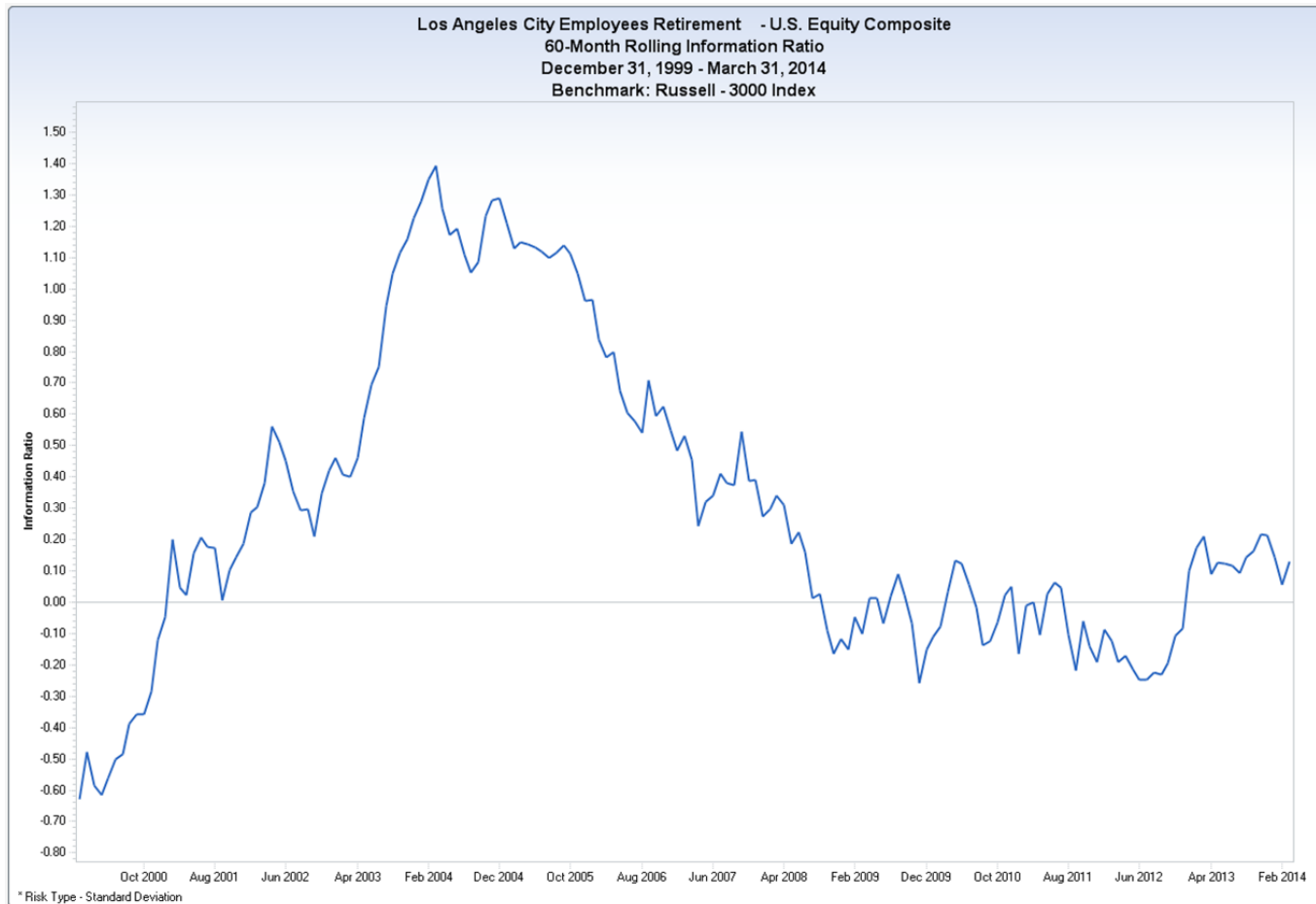
U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Thomson Horstmann <i>Russell 2000</i>	Oct-95	\$ 270	5.1%	-0.5 1.1	25.5 24.9	10.6 13.2	25.9 24.3	8.5 8.5	11.4 9.2	5.3
Excess Return				-1.6	0.6	-2.6	1.6	0.0	2.2	
Franklin Advisers <i>Russell 2000 Growth</i>	Sep-94	\$ 178	3.4%	3.8 0.5	38.9 27.2	19.1 13.6	30.1 25.2	10.0 8.9	10.5 7.7	4.9
Excess Return				3.3	11.7	5.5	4.9	1.1	2.8	
Sit Investments <i>Russell 2000 Growth</i>	Jan-01	\$ 189	3.6%	0.2 0.5	26.8 27.2	12.7 13.6	23.8 25.2	9.6 8.9	5.7 6.0	4.8
Excess Return				-0.3	-0.4	-0.9	-1.4	0.7	-0.3	
PanAgora Asset Management <i>Russell 2000 Value</i>	Feb-06	\$ 249	4.7%	2.5 1.8	27.2 22.6	17.4 12.7	28.3 23.3	-- --	7.1 6.6	2.3
Excess Return				0.7	4.6	4.7	5.0	--	0.5	
Donald Smith & Co. <i>Russell 2000 Value</i>	Feb-06	\$ 134	2.5%	3.0 1.8	22.8 22.6	11.4 12.7	25.0 23.3	-- --	8.6 6.6	7.3
Excess Return				1.2	0.2	-1.3	1.7	--	2.0	
Manager-of-Manager Programs			3.0%							
Attucks <i>Russell 2000</i>	Nov-05	\$ 46	0.9%	1.6 1.1	23.8 24.9	12.6 13.2	24.7 24.3	-- --	8.4 8.3	2.3
Excess Return				0.5	-1.1	-0.6	0.4	--	0.1	
Capital Prospects <i>Russell 3000</i>	Dec-05	\$ 42	0.8%	1.9 2.0	22.7 22.6	13.5 14.6	20.9 21.9	-- --	7.3 7.6	1.9
Excess Return				-0.1	0.1	-1.1	-1.0	--	-0.3	
Progress Investment <i>Russell 3000</i>	Oct-06	\$ 69	1.3%	0.9 2.0	22.7 22.6	12.3 14.6	19.4 21.9	-- --	5.8 6.9	2.3
Excess Return				-1.1	0.1	-2.3	-2.5	--	-1.1	

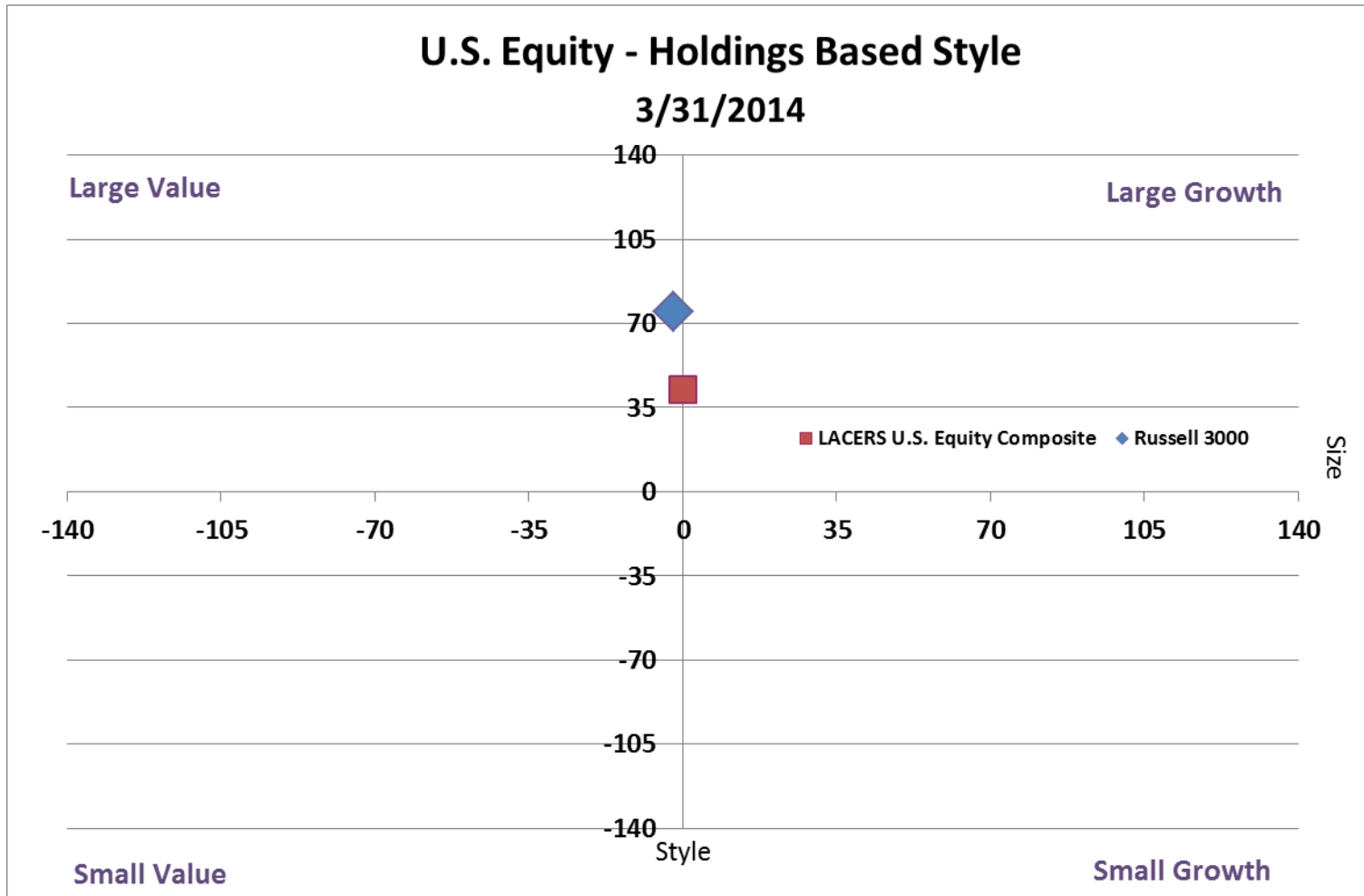
¹ Indicates gross returns.

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/under benchmark return.
- For the past five years, LACERS' information ratio showed mixed results, but it is trending upward for past two years.

Risk-adjusted active returns are referred to as "Information Ratio". Information Ratio = Excess return (alpha) / Excess risk (tracking error).



- LACERS U.S. Equity Portfolio exhibits modest, smaller cap bias versus Russell 3000 benchmark.
- As small cap stocks underperformed large cap stocks in the most recent quarter, this bias was a performance drag versus benchmark.

MANAGER REPORT CARD¹

U.S. Managers	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Aronson, Johnson & Ortiz	Oct-01	Large Cap Value	✗	✓	✓	✓	✓	✓	✓	✗	✓	Performance satisfactory.
➤ Thomson Horstmann	Oct-95	Small Cap	✗	✗	✓	✗	✗	✗	✓	✗	✓	"On Watch" since Aug. 2013 - performance.
➤ Franklin Advisers	Sep-94	Small Cap Growth	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ Sit Investments	Jan-01	Small Cap Growth	✗	✓	✗	✓	✗	✗	✗	✗	✗	"On Watch" since Aug. 2013 - performance.
➤ Donald Smith	Mar-06	Small Cap Value	✓	✓	✓	✗	✗	✗	✓	✗	✓	Performance improving. Monitoring manager.
➤ Panagora	Mar-06	Small Cap Value	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ New Mountain Cap Grp	Mar-08	Corp Gov	✗	n/a	✗	n/a	✗	n/a	✗	n/a	✗	"On Watch" since Aug. 2013 - performance.
➤ Attucks	Nov-05	Fund of Funds	✓	n/a	✗	n/a	✗	n/a	✓	n/a	✓	Performance satisfactory.
➤ Capital Prospects	Dec-05	Fund of Funds	✗	n/a	✓	n/a	✗	n/a	✗	n/a	✗	"On Watch" since Jun. 2011 - performance.
➤ Progress	Sep-06	Fund of Funds	✗	n/a	✓	n/a	✗	n/a	✗	n/a	✗	"On Watch" since Oct. 2009 - performance.
➤ Rhumblin Advisors (Passive)	Mar-93	S&P 500 Index	=	=	✗	✗	✗	✗	✓	✓	✓	Performance satisfactory.
➤ BlackRock S&P 500 (Passive)	Jun-13	S&P 500 Index	=	=	n/a	n/a	n/a	n/a	n/a	n/a	=	Limited track record.
➤ Rhumblin Advisors (Passive)	Jun-13	R1000 Growth Index	=	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓	Limited track record.

¹Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

²Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND			
✓	outperformed index	I	index
✗	underperformed index	U	universe median
=	equal to index		

Aronson , Johnson & Ortiz

Mandate: Large Cap Value

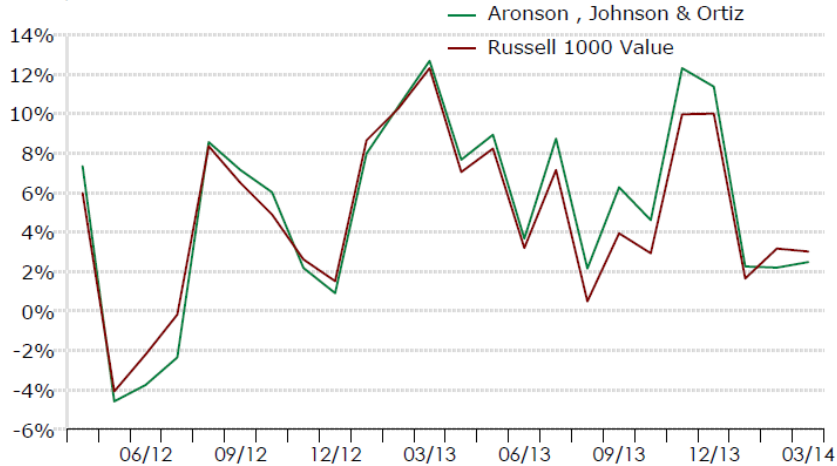
Benchmark: Russell 1000 Value

Strategy

Aronson invests in US stocks with large market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

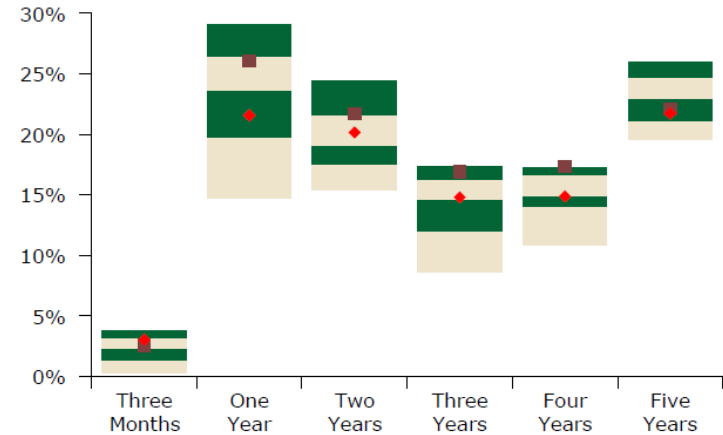
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Aronson , Johnson &	2.5	25.8	21.4	16.6	21.8	9.2	Oct-2001
Russell 1000 Value	3.0	21.6	20.2	14.8	21.8	7.8	
<i>Excess Return</i>	<i>(0.5)</i>	<i>4.2</i>	<i>1.2</i>	<i>1.8</i>	<i>0.0</i>	<i>1.4</i>	

Objective: Outperform the benchmark by 200 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Aronson , Johnson & Ortiz Rank	2.5	26.0	21.7	16.9	17.3	22.1
◆ Russell 1000 Value Rank	3.0	21.6	20.2	14.8	14.9	21.8

	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
10th Percentile	3.7	29.0	24.4	17.3	17.2	26.0
1st Quartile	3.2	26.4	21.6	16.3	16.6	24.7
Median	2.3	23.6	19.0	14.6	14.9	23.0
3rd Quartile	1.3	19.7	17.6	12.1	14.0	21.1
90th Percentile	0.2	14.7	15.4	8.6	10.8	19.6

Number Of Observations	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
	175	164	140	124	110	89

Thomson Horstmann

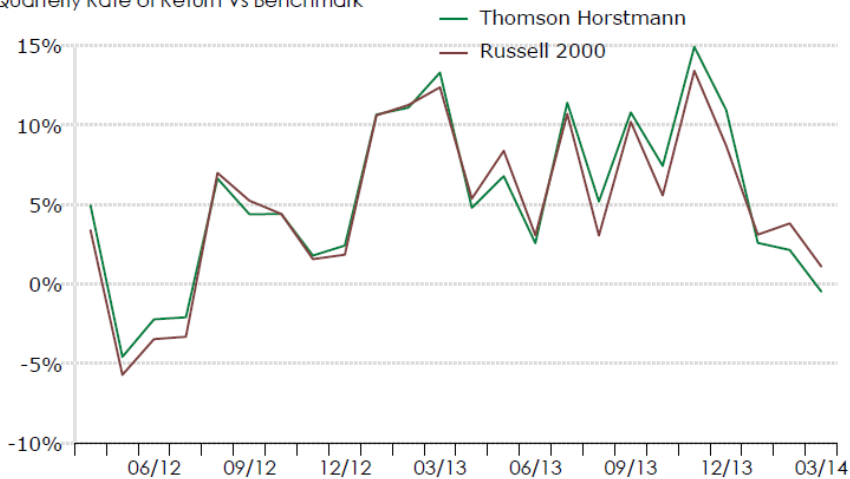
Mandate: Small Cap
Benchmark: Russell 2000

Strategy

Thomson invests in US stocks with small market caps and low P/E ratios.

Performance

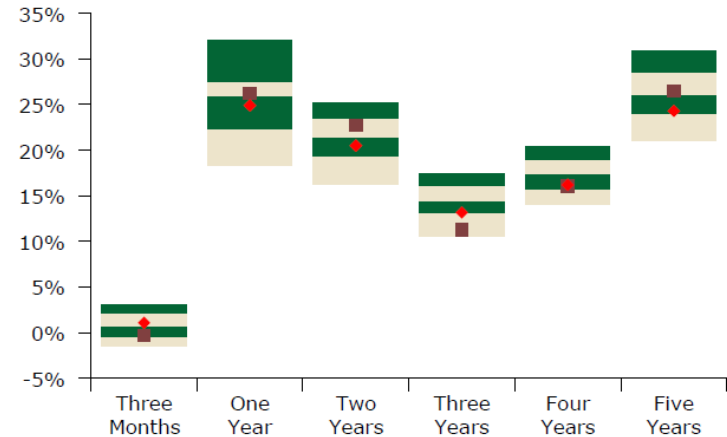
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Thomson Horstmann	(0.5)	25.5	22.0	10.6	25.9	11.4	Oct-1995
Russell 2000	1.1	24.9	20.5	13.2	24.3	9.2	
Excess Return	(1.6)	0.6	1.5	(2.6)	1.6	2.2	

Objective: Outperform the benchmark by 250 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
Thomson Horstmann Rank	(0.3)	26.2	22.7	11.3	16.1	26.5
Russell 2000 Rank	1.1	24.9	20.5	13.2	16.2	24.3
10th Percentile	3.1	32.0	25.1	17.5	20.4	30.8
1st Quartile	2.1	27.5	23.5	16.1	18.9	28.6
Median	0.8	26.0	21.4	14.4	17.4	26.1
3rd Quartile	(0.6)	22.3	19.4	13.1	15.7	24.0
90th Percentile	(1.5)	18.3	16.2	10.6	14.0	21.0
Number Of Observations	184	176	171	158	133	121

Franklin Global Advisers

Mandate: Small Cap Growth

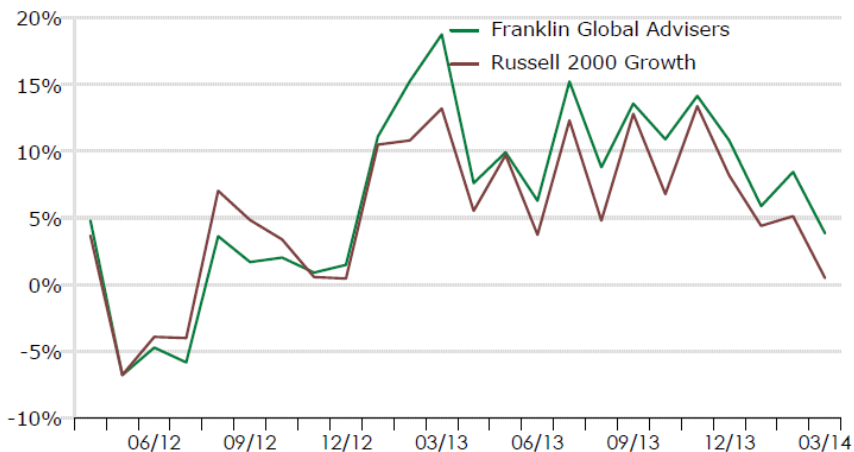
Benchmark: Russell 2000 Growth

Strategy

Franklin invests in US stocks with small market caps, low P/E ratios and earnings per share that are expected to increase at rates much greater than the overall market.

Performance

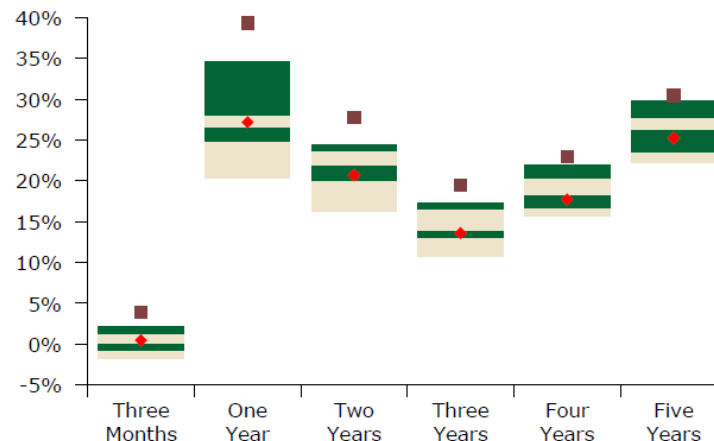
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Franklin Global Advis	3.8	38.9	27.3	19.1	30.1	10.5	Sep-1994
Russell 2000 Growth	0.5	27.2	20.7	13.6	25.2	7.7	
Excess Return	3.3	11.7	6.6	5.5	4.8	2.8	

Objective: Outperform the benchmark by 200 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Franklin Global Advisers	3.9	39.3	27.7	19.4	23.0	30.5
◆ Russell 2000 Growth	0.5	27.2	20.7	13.6	17.7	25.2
Rank	1	3	1	1	7	7
Rank	47	36	63	61	66	56
10th Percentile	2.2	34.6	24.5	17.3	22.0	29.8
1st Quartile	1.2	28.1	23.7	16.5	20.3	27.7
Median	0.1	26.6	21.9	14.0	18.4	26.3
3rd Quartile	(1.0)	24.8	20.0	13.0	16.7	23.6
90th Percentile	(1.7)	20.3	16.2	10.8	15.7	22.2
Number Of Observations	70	67	63	58	41	37

Sit Investments

Mandate: Small Cap Growth

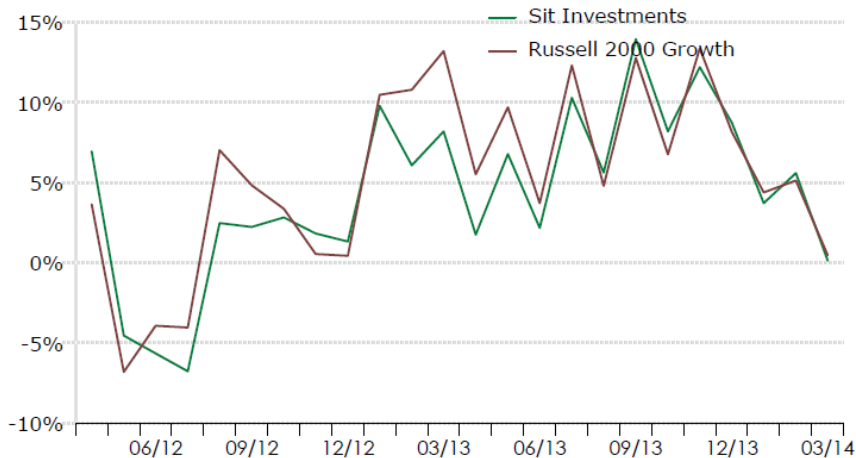
Benchmark: Russell 2000 Growth

Strategy

SIT invests in US stocks with small market caps, low P/E ratios and earnings per share that are expected to increase at rates much greater than the overall market.

Performance

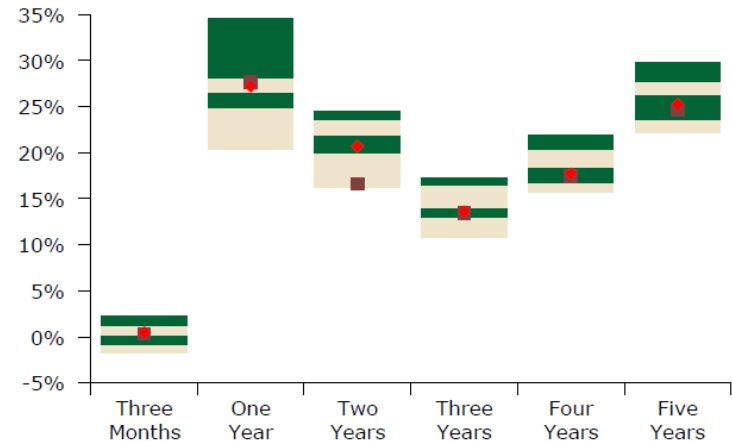
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Sit Investments	0.2	26.8	15.8	12.7	23.8	5.7	Jan-2001
Russell 2000 Growth	0.5	27.2	20.7	13.6	25.2	6.0	
Excess Return	(0.3)	(0.4)	(4.9)	(0.9)	(1.4)	(0.3)	

Objective: Outperform the benchmark by 300-450 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Sit Investments	0.3	27.7	16.6	13.4	17.5	24.6
Rank	47	30	90	69	69	67
◆ Russell 2000 Growth	0.5	27.2	20.7	13.6	17.7	25.2
Rank	47	36	63	61	66	56
10th Percentile	2.2	34.6	24.5	17.3	22.0	29.8
1st Quartile	1.2	28.1	23.7	16.5	20.3	27.7
Median	0.1	26.6	21.9	14.0	18.4	26.3
3rd Quartile	(1.0)	24.8	20.0	13.0	16.7	23.6
90th Percentile	(1.7)	20.3	16.2	10.8	15.7	22.2
Number Of Observations	70	67	63	58	41	37

Donald Smith & Co.

Mandate: Small Cap Value

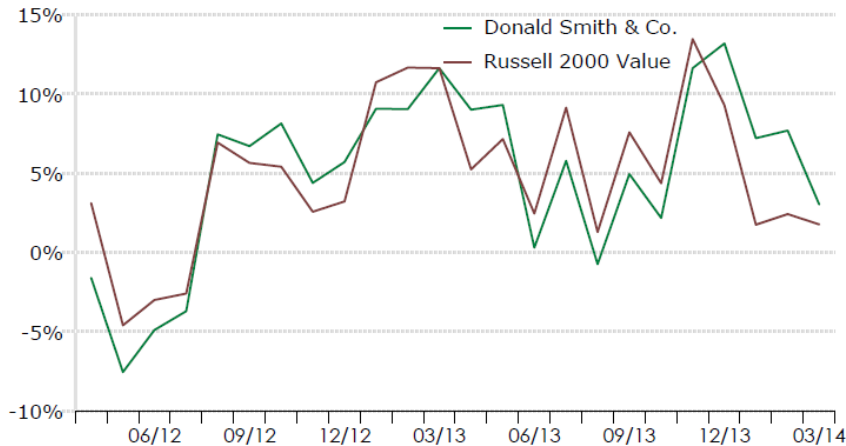
Benchmark: Russell 2000 Value

Strategy

Donald Smith invests in US stocks with small market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

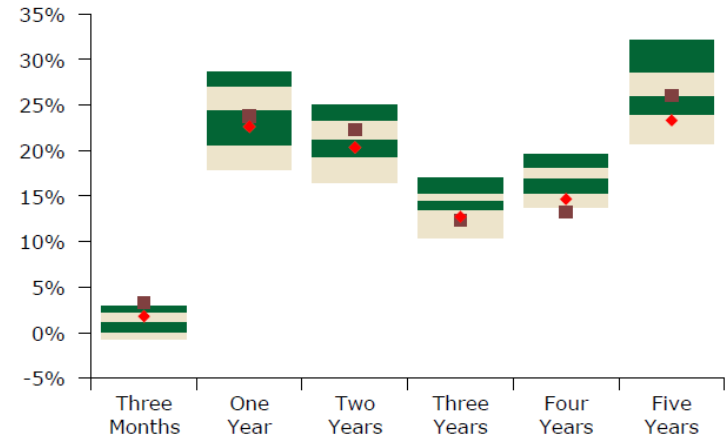
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Donald Smith & Co.	3.0	22.8	21.3	11.4	25.0	8.6	Feb-2006
Russell 2000 Value	1.8	22.6	20.3	12.7	23.3	6.6	
<i>Excess Return</i>	<i>1.2</i>	<i>0.2</i>	<i>1.0</i>	<i>(1.3)</i>	<i>1.7</i>	<i>2.0</i>	

Objective: Outperform the benchmark by 300 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Donald Smith & Co.	3.3	23.8	22.3	12.3	13.2	26.0
Rank	6	55	40	82	93	51
◆ Russell 2000 Value	1.8	22.6	20.3	12.7	14.7	23.3
Rank	39	60	62	80	87	80
10th Percentile	2.9	28.6	25.0	16.9	19.5	32.1
1st Quartile	2.2	27.1	23.3	15.3	18.1	28.7
Median	1.3	24.5	21.3	14.6	17.0	26.0
3rd Quartile	0.0	20.7	19.4	13.5	15.3	24.0
90th Percentile	(0.7)	17.8	16.4	10.5	13.7	20.8
Number Of Observations	98	98	97	98	87	82

PanAgora Asset Management

Mandate: Small Cap Value

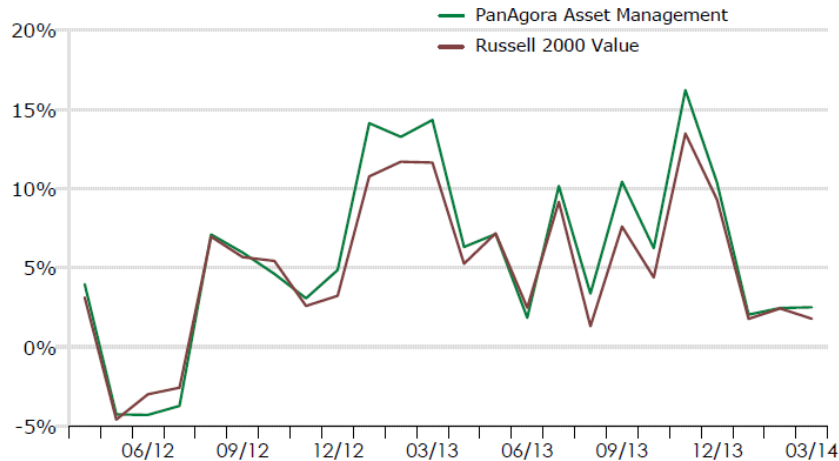
Benchmark: Russell 2000 Value

Strategy

Panagora invests in US stocks with small market caps, low P/E ratios and lower historical earnings per share that are expected to increase.

Performance

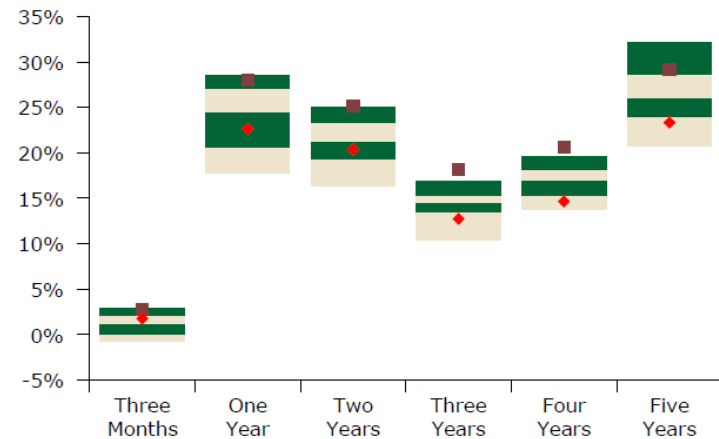
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
PanAgora Asset Mana	2.5	27.2	24.3	17.4	28.3	7.1	Feb-2006
Russell 2000 Value	1.8	22.6	20.3	12.7	23.3	6.6	
<i>Excess Return</i>	0.7	4.6	4.0	4.7	5.0	0.5	

Objective: Outperform the benchmark by 200 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ PanAgora Asset Mana	2.8	28.0	25.1	18.2	20.6	29.1
Rank	14	17	9	7	2	23
◆ Russell 2000 Value	1.8	22.6	20.3	12.7	14.7	23.3
Rank	39	60	62	80	87	80
10th Percentile	2.9	28.6	25.0	16.9	19.5	32.1
1st Quartile	2.2	27.1	23.3	15.3	18.1	28.7
Median	1.3	24.5	21.3	14.6	17.0	26.0
3rd Quartile	0.0	20.7	19.4	13.5	15.3	24.0
90th Percentile	(0.7)	17.8	16.4	10.5	13.7	20.8
Number Of Observations	98	98	97	98	87	82

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LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Non-U.S. Equity Managers

Non-U.S. Equity Managers

(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Non-U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Non-U.S. Equity	Oct-94	\$ 3,134	100.0%	0.6	15.0	5.8	16.4	7.3	5.5	1.4
<i>MSCI ACWI ex U.S.</i>				<i>0.5</i>	<i>12.3</i>	<i>4.1</i>	<i>15.5</i>	<i>7.1</i>	<i>5.9</i>	
Excess Return				0.1	2.7	1.7	0.9	0.2	-0.4	
Developed ex-U.S.	Jun-12	\$ 2,838	90.5%	0.9	17.3	--	--	--	22.4	--
<i>MSCI EAFE ND</i>				<i>0.7</i>	<i>17.6</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>21.6</i>	
Excess Return				0.2	-0.3	--	--	--	0.8	
State Street Equity (Passive)	Aug-93	\$ 1,394	44.5%	1.2	17.6	6.9	16.8	7.2	6.3	0.2
<i>MSCI World ex U.S.</i>				<i>1.1</i>	<i>17.0</i>	<i>6.4</i>	<i>16.5</i>	<i>6.9</i>	<i>5.6</i>	
Excess Return				0.1	0.6	0.5	0.3	0.3	0.7	
Lazard Asset Management	Dec-13	\$ 393	12.5%	1.1	--	--	--	--	5.4	--
<i>MSCI EAFE ND</i>				<i>0.7</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>3.9</i>	
Excess Return				0.4	--	--	--	--	1.5	
TT International	May-01	\$ 175	5.6%	-1.6	21.2	7.6	16.0	6.4	5.7	4.3
<i>MSCI World ex U.S.</i>				<i>0.7</i>	<i>16.5</i>	<i>6.3</i>	<i>15.9</i>	<i>6.6</i>	<i>5.7</i>	
Excess Return				-2.3	4.7	1.3	0.1	-0.2	0.0	
MFS Inst. Adv.	Dec-13	\$ 382	12.2%	-1.0	--	--	--	--	1.0	--
<i>MSCI World ex U.S. Growth</i>				<i>0.4</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>2.8</i>	
Excess Return				-1.4	--	--	--	--	-1.8	
Barrow Hanley	Dec-13	\$ 401	12.8%	3.1	--	--	--	--	7.9	--
<i>MSCI EAFE Value</i>				<i>1.3</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>3.6</i>	
Excess Return				1.8	--	--	--	--	4.3	

¹ Indicates gross returns.

Non-U.S. Equity Managers

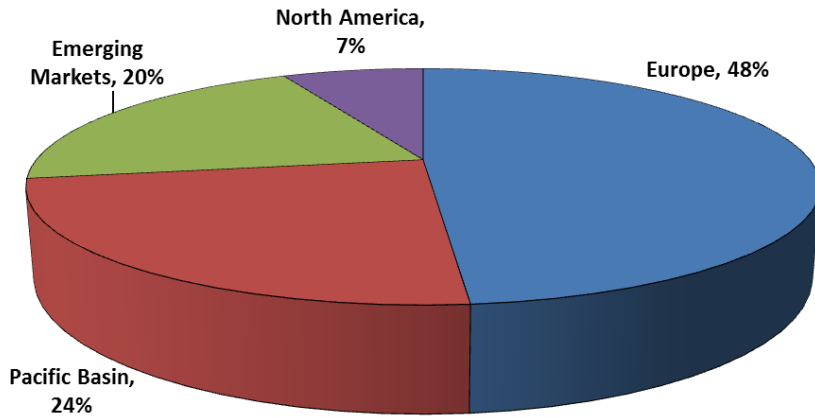
(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Non-U.S. Equity	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Oberweiss Asset Mgmt <i>MSCI EAFE Sm Cp</i>	Jan-14	\$ 33	1.0%	--	--	--	--	--	-1.2 1.9	--
Excess Return				--	--	--	--	--	-3.1	
AQR Capital <i>MSCI EAFE Sm Cp</i>	Feb-14	\$ 60	1.9%	--	--	--	--	--	-0.2 0.5	--
Excess Return				--	--	--	--	--	-0.7	
Emerging Markets <i>MSCI Emerging Markets ND</i>	Jun-12	\$ 296	9.5%	-1.7 -0.4	-2.4 -1.4	--	--	--	5.3 5.8	--
Excess Return				-1.3	-1.0	--	--	--	-0.5	
Batterymarch <i>MSCI Emerging Markets ND</i>	Sep-08	\$ 107	3.4%	-3.0 -0.4	-5.5 -1.4	-6.1 -2.9	12.6 14.5	--	5.9 7.1	2.7
Excess Return				-2.6	-4.1	-3.2	-1.9	--	-1.2	
Boston Company <i>MSCI Emerging Markets ND</i>	Jan-03	\$ 189	6.1%	-0.9 -0.4	-0.5 -1.4	-5.4 -2.9	12.5 14.5	8.8 10.1	14.2 14.4	3.6
Excess Return				-0.5	0.9	-2.5	-2.0	-1.3	-0.2	

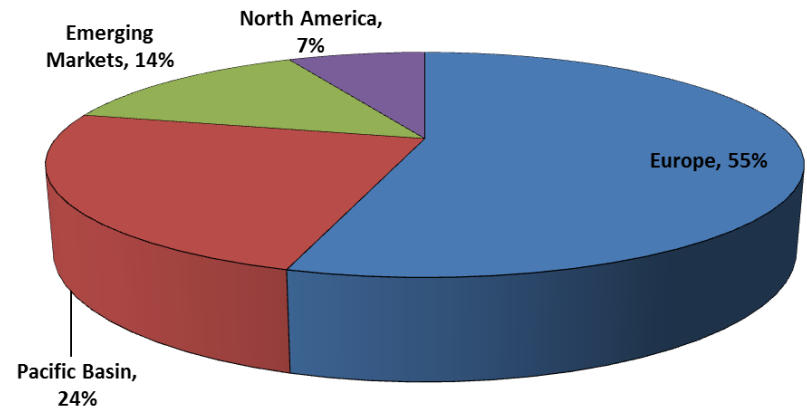
¹ Indicates gross returns.

Country Allocation

Benchmark – MSCI ACWI x U.S. Index

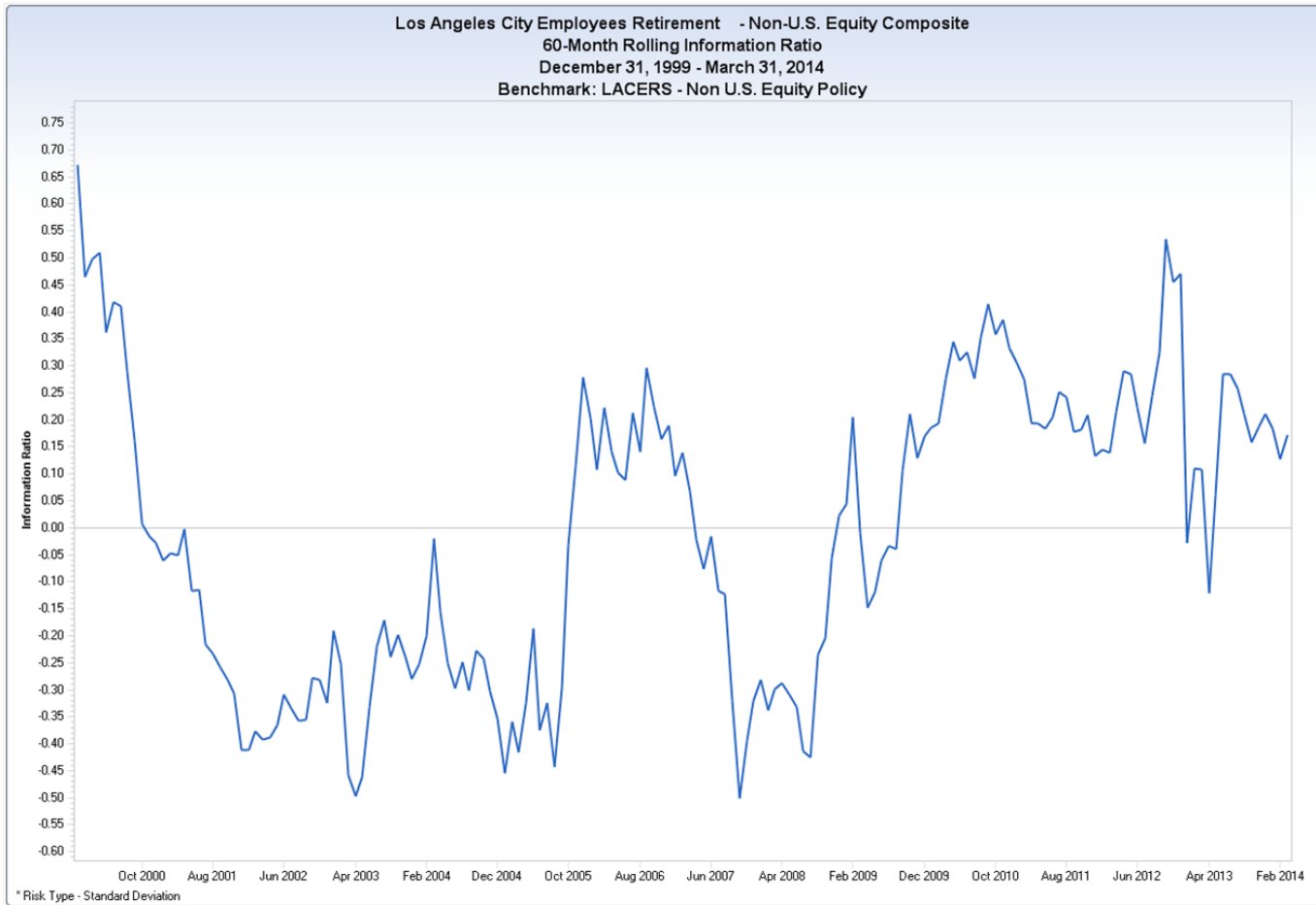


LACERS Non-U.S. Equity Composite



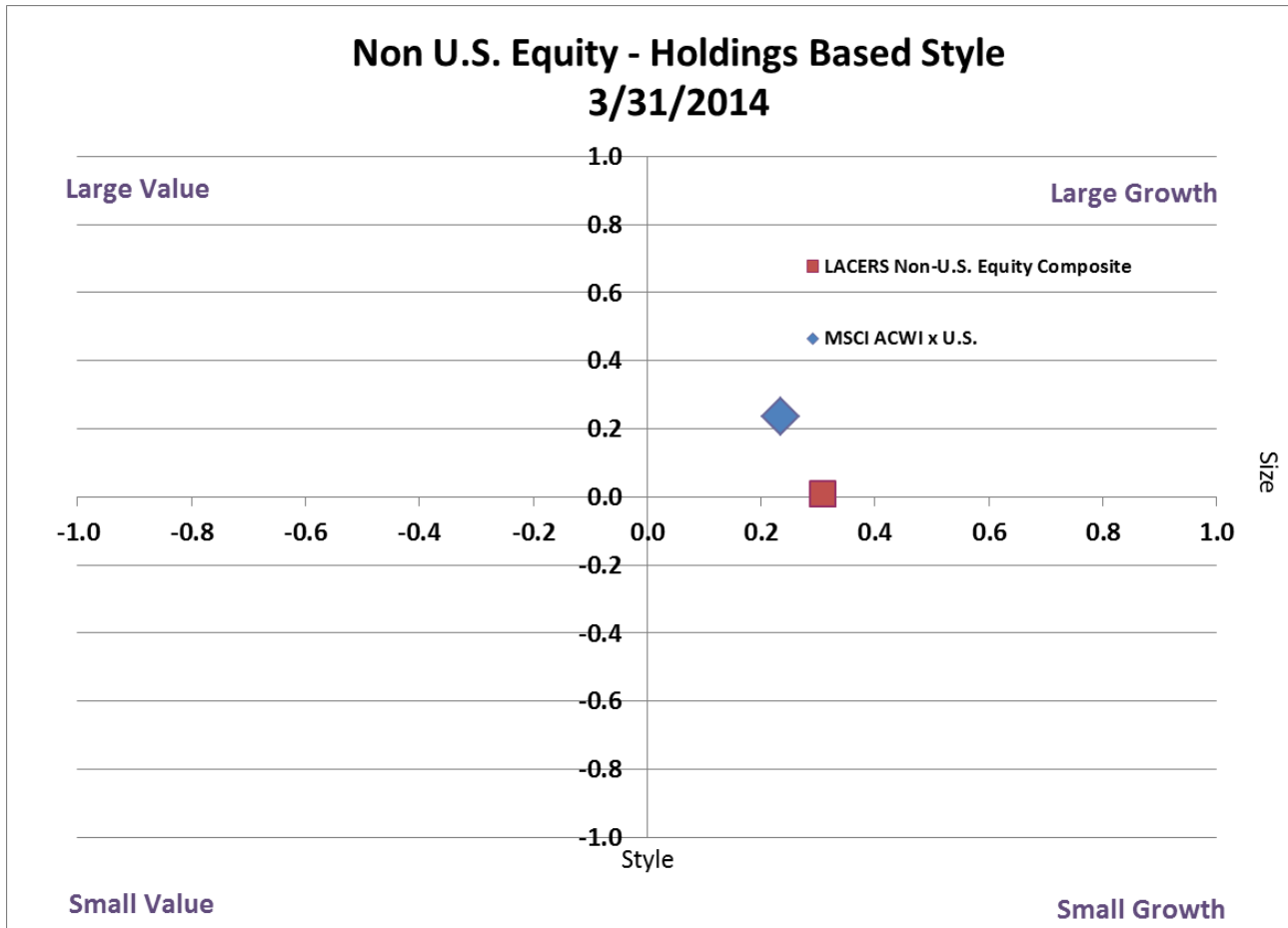
- As LACERS implements the new asset allocation, the geographic weightings of the Non-U.S. Equity Composite will become closer to the benchmark.

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/under benchmark return.
- Non-U.S. Equity's rolling information ratio has been mostly positive for past 3 years.

Risk-adjusted active returns are referred to as "Information Ratio". Information Ratio = Excess return (alpha) / Excess risk (tracking error).



- LACERS Non-U.S. Equity Portfolio has exhibited modest small cap bias compared to MSCI ACWI x U.S. index.

MANAGER REPORT CARD¹

Non-U.S. Managers	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Batterymarch	Aug-08	Emerging Markets	✗	✗	✗	✗	✗	✗	✗	✗	✗	Manager terminated in April 2014.
➤ Boston Company	Jan-03	Emerging Markets	✗	✗	✓	✓	✗	✗	✗	✗	✗	"On Watch" since Feb. 2012 - performance lagging. Monitoring manager.
➤ AQR Capital	Feb-14	Non US Developed	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✗	Limited track record.
➤ Oberweiss Asset	Jan-14	Non US Developed	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✗	Limited track record.
➤ Barrow Hanley	Dec-13	Non US Developed	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓	Limited track record.
➤ Lazard Asset	Dec-13	Non US Developed	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓	Limited track record.
➤ MFS Inst. Adv.	Dec-13	Non US Developed	✗	✗	n/a	n/a	n/a	n/a	n/a	n/a	✗	Limited track record.
➤ TT International	May-01	Non US Developed	✗	✗	✓	✓	✓	✗	✓	✗	✗	Manager terminated in May 2014.
➤ State Street	Aug-93	Non US Developed	✓	✓	✓	✗	✓	✗	✓	✗	✓	Performance satisfactory.
➤ Knight Vinke	Apr-06	Corp Gov - Europe	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	In redemption process.

¹Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

²Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND	
✓	outperformed index
✗	underperformed index
=	equal to index
I	index
U	universe median

Barrow Hanley

Mandate: Non-US Developed Equity Mgrs.

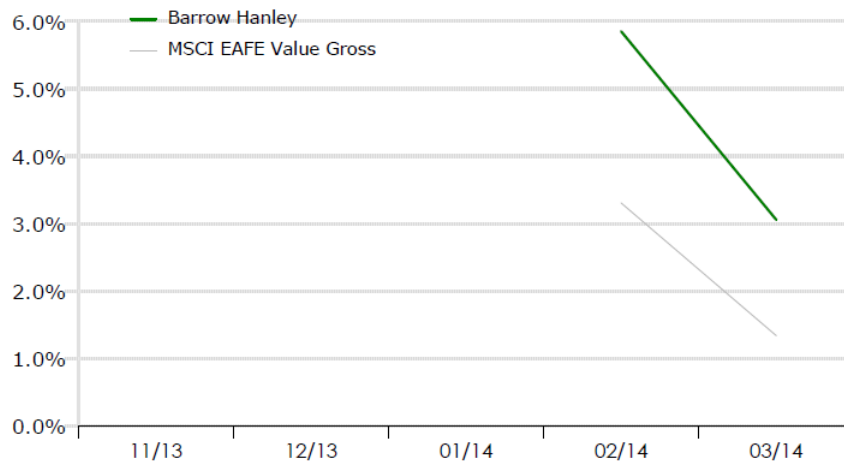
Benchmark: MSCI EAFE Value Gross

Strategy

Barrow Hanley invests in Non-US stocks across all developed countries.

Performance

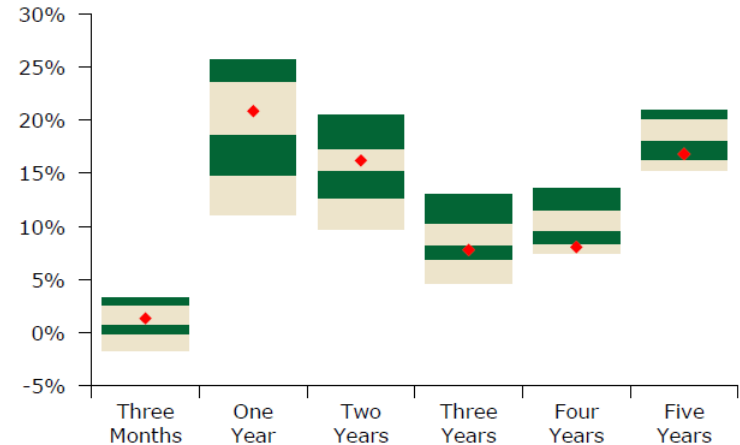
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Barrow Hanley	3.1	--	--	--	--	7.9	Nov-2013
MSCI EAFE Value Gro	1.3	--	--	--	--	3.6	
Excess Return	1.8	--	--	--	--	4.3	

Objective: Outperform the benchmark by 100 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Barrow Hanley	3.1	--	--	--	--	--
Rank	13					
◆ MSCI EAFE Value Gro	1.3	20.9	16.2	7.8	8.0	16.8
Rank	41	37	37	62	85	66
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

Lazard Asset Management

Mandate: Non-US Developed Equity Mgrs.

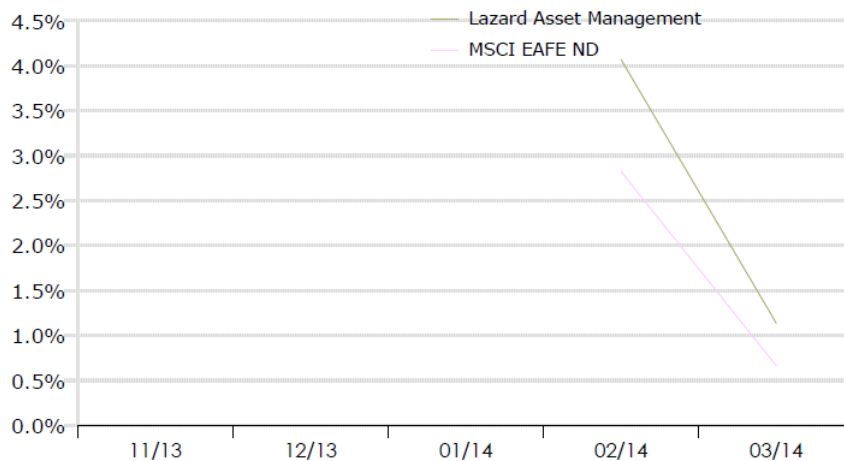
Benchmark: MSCI EAFE ND

Strategy

Lazard invests in Non-US stocks across all developed countries.

Performance

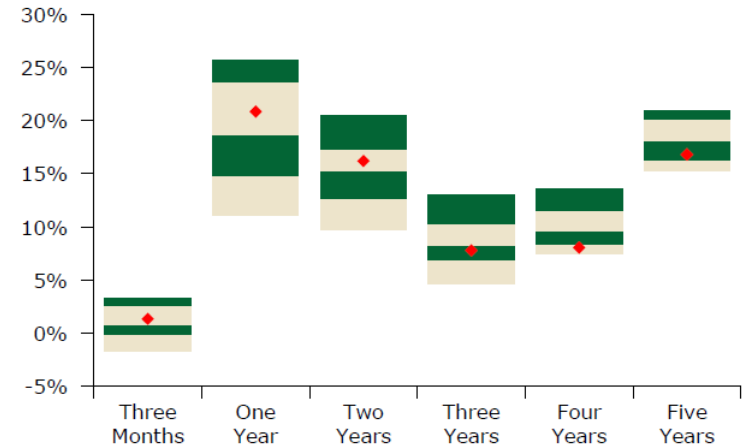
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Lazard Asset Manage	1.1	--	--	--	--	5.4	Nov-2013
MSCI EAFE ND	0.7	--	--	--	--	3.9	
Excess Return	0.4	--	--	--	--	1.5	

Objective: Outperform the benchmark by 100 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Lazard Asset Management	1.1	--	--	--	--	--
Rank	45					
◆ MSCI EAFE ND	0.7	17.6	14.4	7.2	8.0	16.0
Rank	51	57	57	69	86	77
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

MFS Inst. Adv.

Mandate: Non-US Developed Equity Mgrs.

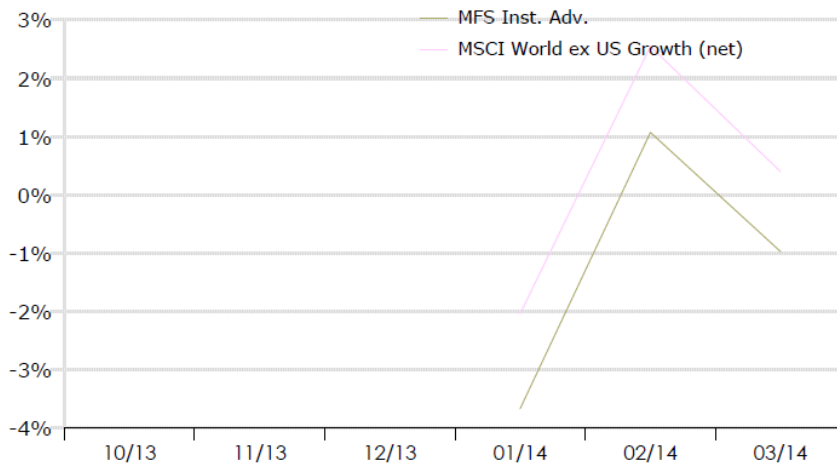
Benchmark: MSCI World ex US Growth (net)

Strategy

MFS Inst. Adv. invests in Non-US stocks across all developed countries.

Performance

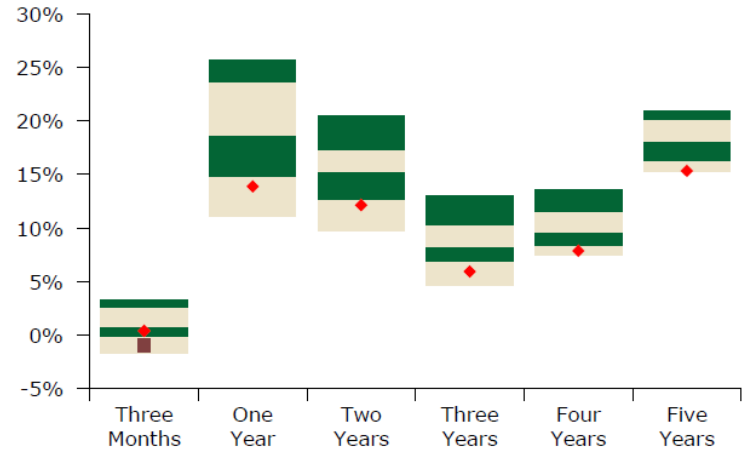
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
MFS Inst. Adv.	(1.0)	--	--	--	--	1.0	Oct-2013
MSCI World ex US Gr	0.4	--	--	--	--	2.8	
Excess Return	(1.4)	--	--	--	--	(1.8)	

Objective: Outperform the benchmark by 100 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ MFS Inst. Adv.	(1.0)	--	--	--	--	--
Rank	84					
◆ MSCI World ex US Gr	0.4	13.9	12.1	5.9	7.9	15.3
Rank	57	83	80	85	87	89
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

AQR CAPITAL

Mandate: Non-US Developed Equity Mgrs.

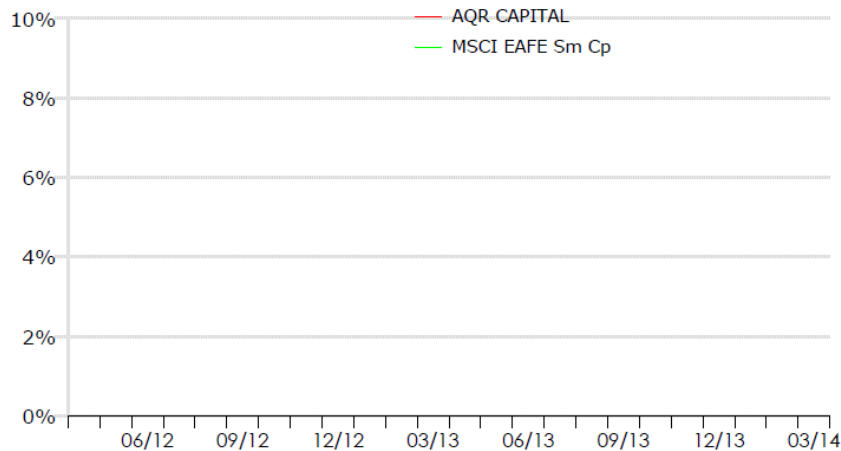
Benchmark: MSCI EAFE Sm Cp

Strategy

AQR Capital invests in Non-US stocks across all developed countries.

Performance

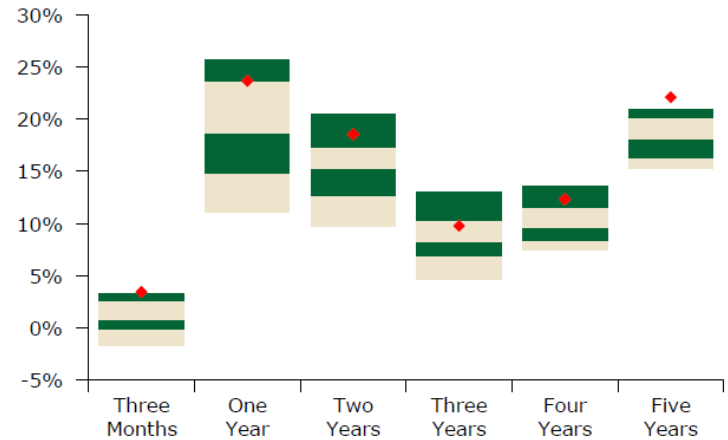
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
AQR CAPITAL	--	--	--	--	--	(0.2)	Feb-2014
MSCI EAFE Sm Cp	--	--	--	--	--	0.5	
Excess Return	--	--	--	--	--	(0.7)	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ AQR CAPITAL	--	--	--	--	--	--
◆ MSCI EAFE Sm Cp	3.4	23.7	18.6	9.8	12.3	22.1
Rank						
Rank	9	25	17	33	19	5
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

Oberweiss Asset Mgmt

Mandate: Non-US Developed Equity Mgrs.

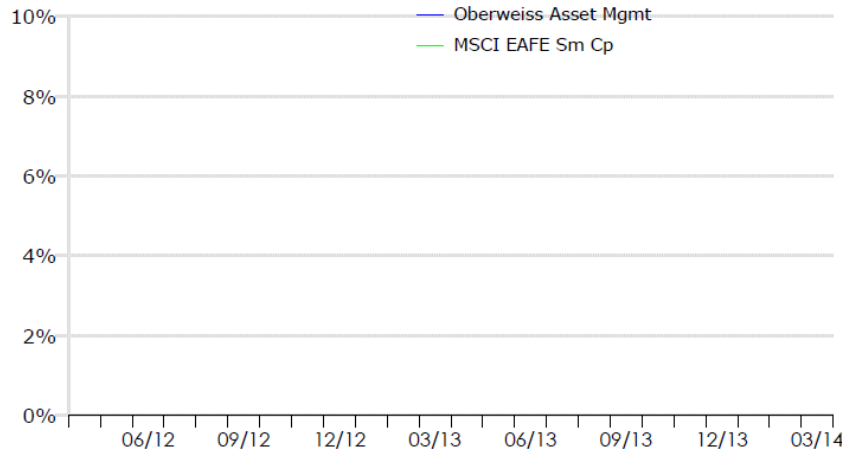
Benchmark: MSCI EAFE Sm Cp

Strategy

Oberweiss Asset Mgmt. invests in Non-US stocks across all developed countries.

Performance

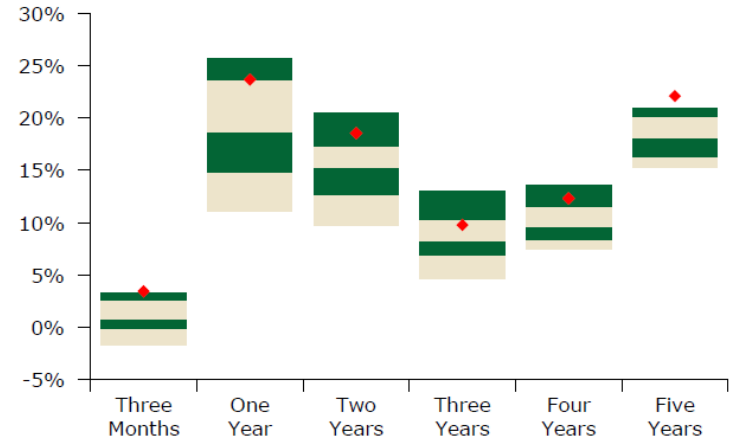
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Oberweiss Asset Mgn	--	--	--	--	--	(1.2)	Jan-2014
MSCI EAFE Sm Cp	--	--	--	--	--	1.9	
Excess Return	--	--	--	--	--	(3.1)	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Oberweiss Asset Mgrn	--	--	--	--	--	--
Rank	--					
◆ MSCI EAFE Sm Cp	3.4	23.7	18.6	9.8	12.3	22.1
Rank	9	25	17	33	19	5
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

TT International

Mandate: Non-US Developed Equity Mgrs.

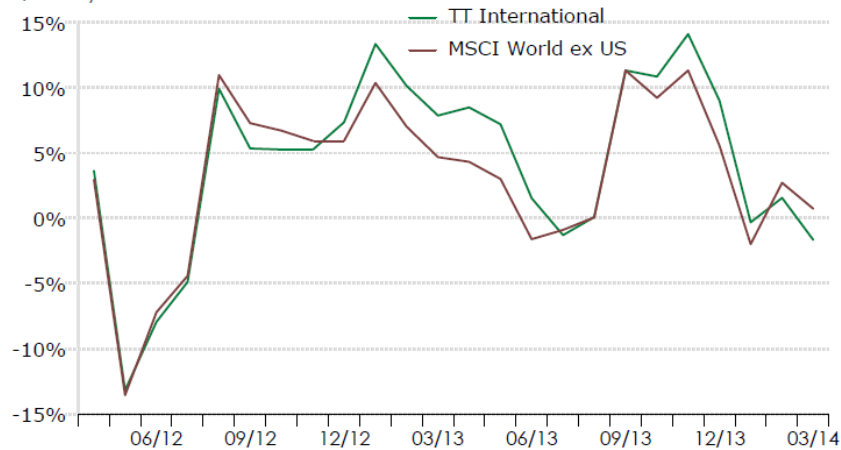
Benchmark: MSCI World ex US

Strategy

TT Intl invests in Non-US stocks primarily in developed countries. There is no regional focus. Potential investment opportunities are pursued in all countries within the MSCI World ex US index.

Performance

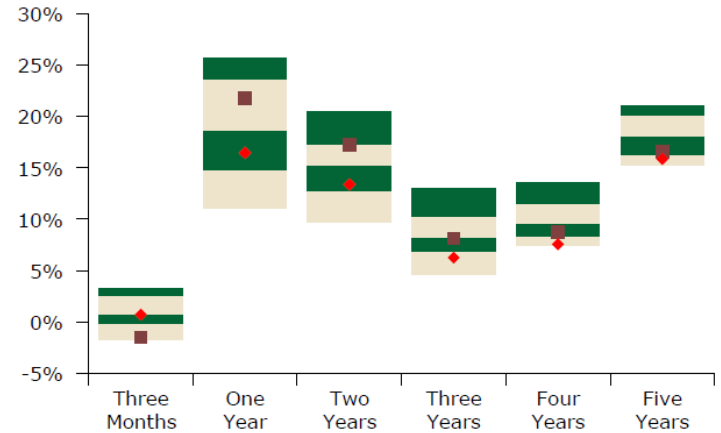
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
TT International	(1.6)	21.2	16.7	7.6	16.0	5.7	May-2001
MSCI World ex US	0.7	16.5	13.4	6.3	15.9	5.7	
<i>Excess Return</i>	<i>(2.3)</i>	<i>4.7</i>	<i>3.3</i>	<i>1.3</i>	<i>0.1</i>	<i>(0.0)</i>	

Objective: Annualized absolute excess returns expected to be 1.5% per annum over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ TT International	(1.5)	21.8	17.2	8.1	8.8	16.6
Rank	88	35	27	54	69	69
◆ MSCI World ex US	0.7	16.5	13.4	6.3	7.6	15.9
Rank	50	61	66	81	88	80
10th Percentile	3.3	25.7	20.5	13.0	13.5	21.0
1st Quartile	2.6	23.6	17.3	10.3	11.5	20.2
Median	0.7	18.6	15.2	8.3	9.6	18.1
3rd Quartile	(0.3)	14.8	12.7	6.9	8.4	16.3
90th Percentile	(1.7)	11.1	9.8	4.6	7.5	15.3
Number Of Observations	188	171	166	157	145	126

Boston Company

Mandate: Emerging Markets Equity

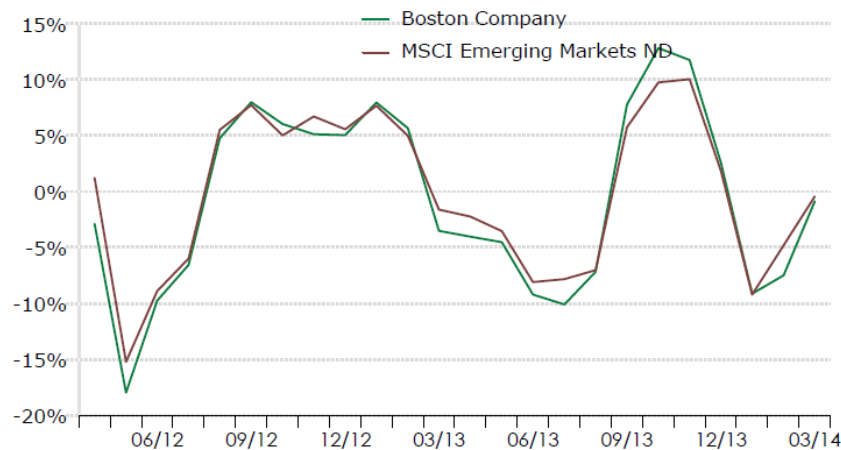
Benchmark: MSCI Emerging Markets ND

Strategy

Boston Co. invests in Non-US stocks in emerging countries that are part of the MSCI Emerging Markets index.

Performance

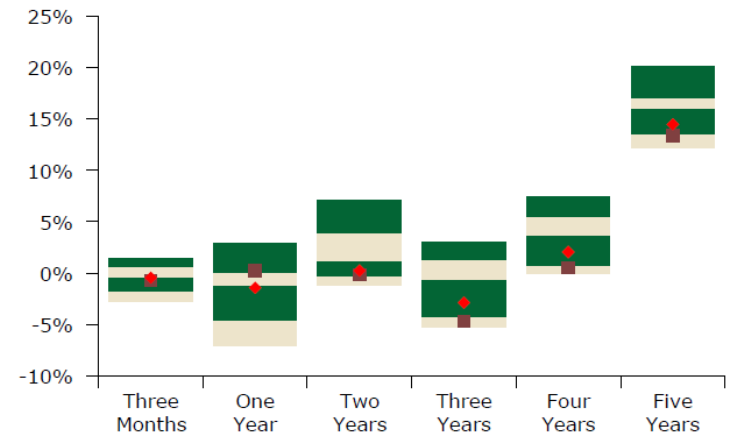
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Boston Company	(0.9)	(0.5)	(0.8)	(5.4)	12.5	14.2	Jan-2003
MSCI Emerging Mark	(0.4)	(1.4)	0.2	(2.9)	14.5	14.4	
<i>Excess Return</i>	<i>(0.5)</i>	<i>0.9</i>	<i>(1.0)</i>	<i>(2.5)</i>	<i>(2.0)</i>	<i>(0.2)</i>	

Objective: Outperform the benchmark by 200-300 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Boston Company	(0.7)	0.2	(0.1)	(4.7)	0.5	13.4
Rank	60	21	73	79	79	77
◆ MSCI Emerging Markets	(0.4)	(1.4)	0.2	(2.9)	2.1	14.5
Rank	50	57	69	67	65	64
10th Percentile	1.5	2.9	7.1	3.0	7.4	20.1
1st Quartile	0.7	(0.1)	4.0	1.3	5.5	17.0
Median	(0.5)	(1.3)	1.3	(0.7)	3.7	16.0
3rd Quartile	(1.9)	(4.7)	(0.4)	(4.3)	0.7	13.5
90th Percentile	(2.7)	(7.0)	(1.2)	(5.3)	0.0	12.2
Number Of Observations	72	73	67	61	58	47

Batterymarch

Mandate: Emerging Markets Equity

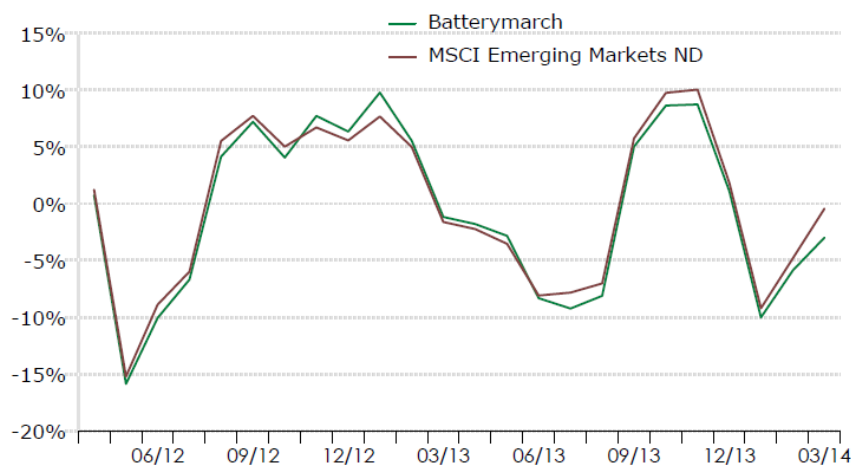
Benchmark: MSCI Emerging Markets ND

Strategy

Batterymarch invests in Non-US stocks in emerging countries that are part of the MSCI Emerging Markets index.

Performance

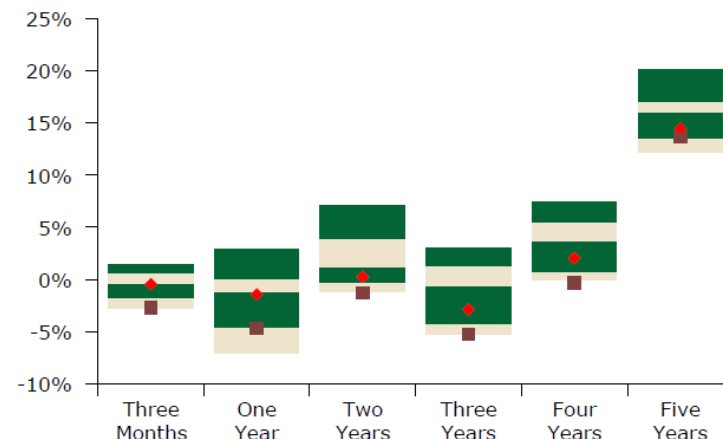
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Batterymarch	(3.0)	(5.5)	(2.1)	(6.1)	12.6	5.9	Sep-2008
MSCI Emerging Mark	(0.4)	(1.4)	0.2	(2.9)	14.5	7.1	
Excess Return	(2.6)	(4.1)	(2.3)	(3.2)	(1.9)	(1.2)	

Objective: Outperform the benchmark by 300 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ BatteryMarch	(2.7)	(4.7)	(1.3)	(5.3)	(0.3)	13.6
◆ MSCI Emerging Markets	(0.4)	(1.4)	0.2	(2.9)	2.1	14.5
Rank	91	75	91	90	93	74
10th Percentile	1.5	2.9	7.1	3.0	7.4	20.1
1st Quartile	0.7	(0.1)	4.0	1.3	5.5	17.0
Median	(0.5)	(1.3)	1.3	(0.7)	3.7	16.0
3rd Quartile	(1.9)	(4.7)	(0.4)	(4.3)	0.7	13.5
90th Percentile	(2.7)	(7.0)	(1.2)	(5.3)	0.0	12.2
Number Of Observations	72	73	67	61	58	47



LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Fixed Income Managers

Fixed Income Managers

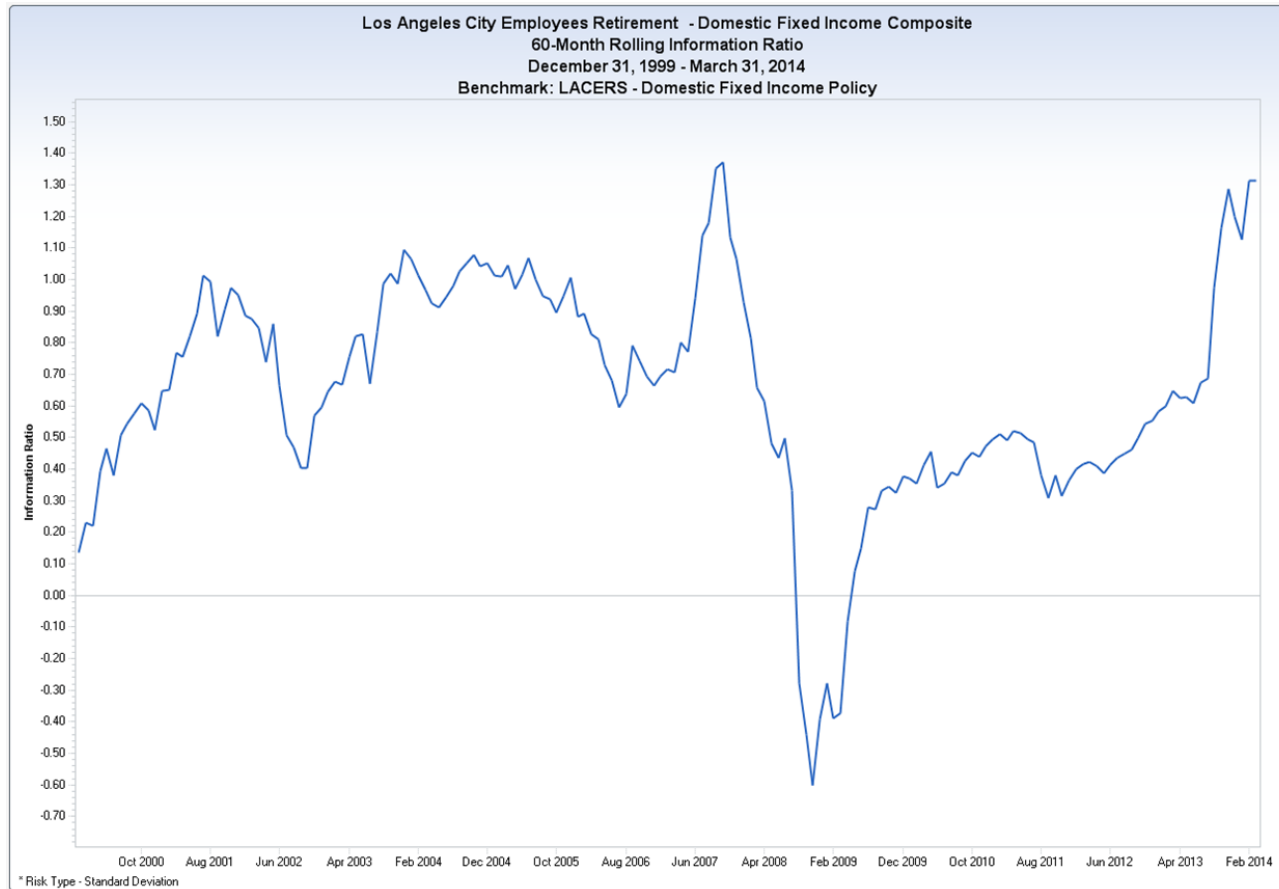
(Returns are Net of Fees)

	Inception Date	Market Value (\$million)	% to Total Fixed Income	Current Quarter	One Year	Three Years	Five Years	Ten Years	Since Inception ¹	5 Year Tracking Error
Core Fixed Income	Jun-12	\$ 2,807	100.0%	2.3	0.8	--	--	--	3.2	--
<i>BC U.S. Aggregate*</i>				1.8	-0.1	--	--	--	1.4	
Excess Return				0.5	0.9	--	--	--	1.8	
Loomis Sayles	Jun-80	\$ 1,146	40.5%	3.0	1.7	5.2	9.1	5.8	9.8	2.5
<i>BC U.S. Aggregate*</i>				1.8	-0.1	4.0	5.6	4.7	8.2	
Excess Return				1.2	1.8	1.2	3.5	1.1	1.6	
Neuberger Berman	Nov-90	\$ 1,149	41.0%	1.9	0.2	4.5	9.3	6.1	7.5	2.9
<i>BC U.S. Aggregate*</i>				1.8	-0.1	4.0	5.6	4.7	6.6	
Excess Return				0.1	0.3	0.5	3.7	1.4	0.9	
Baird Advisors	Mar-05	\$ 238	8.7%	1.2	0.5	4.3	6.1	--	5.1	0.8
<i>BC U.S. Govt/Credit Intermed</i>				1.0	-0.1	3.1	4.2	--	4.4	
Excess Return				0.2	0.6	1.2	1.9	--	0.7	
LM Capital Group	Mar-05	\$ 274	9.8%	1.8	0.2	3.9	6.5	--	5.4	1.7
<i>BC U.S. Aggregate*</i>				1.8	-0.1	3.8	4.6	--	4.7	
Excess Return				0.0	0.3	0.1	1.9	--	0.7	
Credit Opportunities	Jun-13	\$ 209	100.0%	3.5	--	--	--	--	9.7	--
<i>BC U.S. Corp High Yield 2% Cap</i>				3.0	--	--	--	--	9.1	
Excess Return				0.5	--	--	--	--	0.6	
Aegon U.S.A	Jun-13	\$ 103	49.3%	3.2	--	--	--	--	8.6	--
<i>BC U.S. Corp High Yield 2% Cap</i>				3.0	--	--	--	--	9.1	
Excess Return				0.2	--	--	--	--	-0.5	
Franklin Advisors	Jun-13	\$ 106	50.7%	3.9	--	--	--	--	10.8	--
<i>BC U.S. Corp High Yield 2% Cap</i>				3.0	--	--	--	--	9.1	
Excess Return				0.9	--	--	--	--	1.7	

¹ Indicates gross returns.

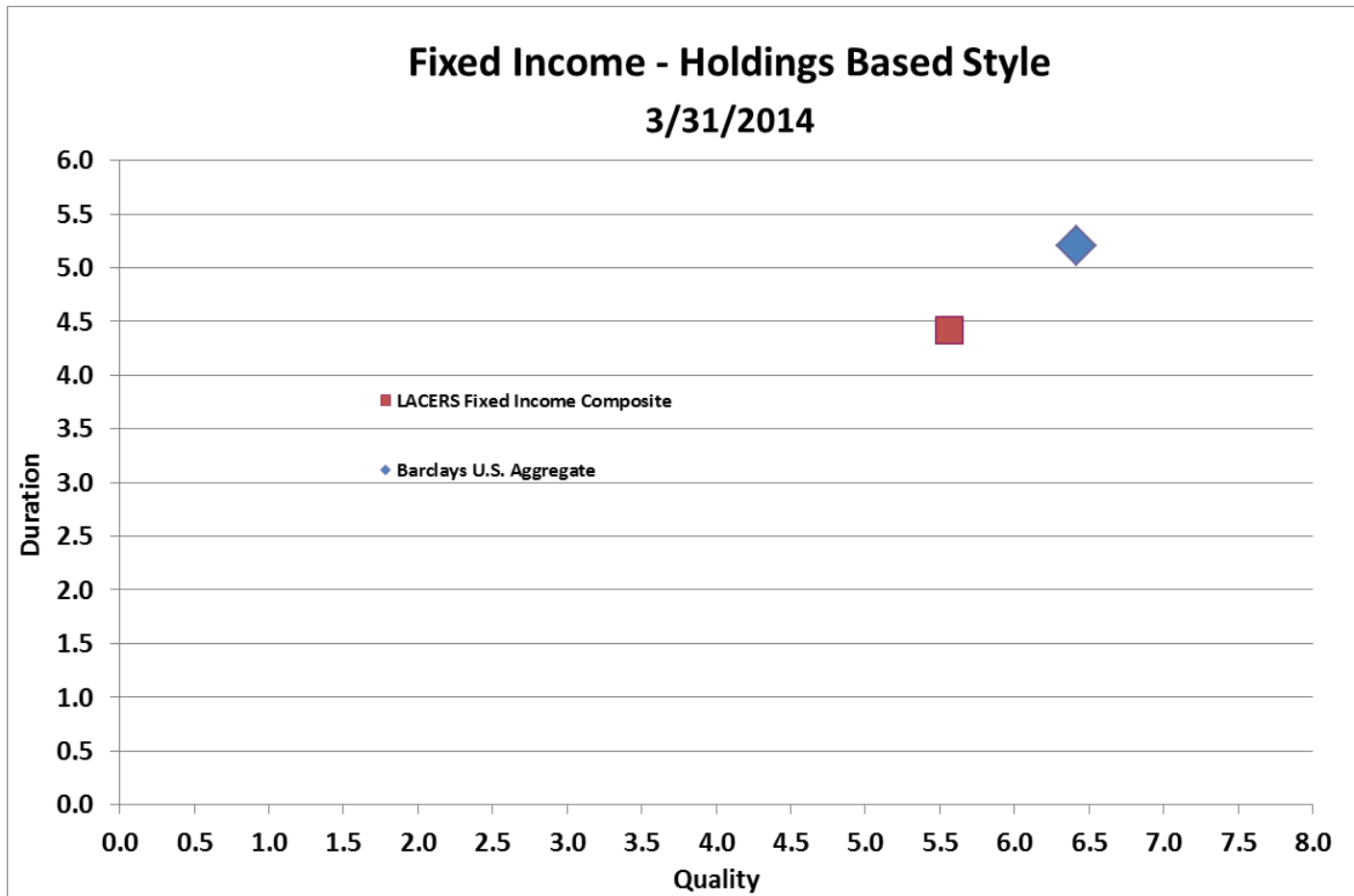
* Changed from the BC Universal Index on July 1, 2013.

5-Year Rolling Risk-Adjusted Active Returns



- Active returns are returns earned over/under benchmark return.
- Despite dip in 2008, fixed income composite has provided mostly positive risk-adjusted active returns since inception.

Risk-adjusted active returns are referred to as "Information Ratio". Information Ratio = Excess return (alpha) / Excess risk (tracking error).



- LACERS Fixed Income portfolio has slightly lower duration than benchmark.
- Portfolio is modestly lower quality versus benchmark.

MANAGER REPORT CARD¹

Fixed Income	Inception Date	Mandate	Current Quarter		One Year		Three Years		Five Years		Since Inception	Comments ²
			I	U	I	U	I	U	I	U	I	
➤ Neuberger Berman	Nov-90	Core	✓	✗	✓	✗	✓	✗	✓	✓	✓	Performance satisfactory.
➤ Loomis Sayles	Jun-80	Core	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ Baird Advisors	Mar-05	Intermediate	✓	✓	✓	✓	✓	✓	✓	✓	✓	Performance satisfactory.
➤ LM Capital Group	Feb-05	Core	=	✓	✓	✗	✓	✓	✓	✓	✓	Performance satisfactory.
Credit Opportunities												
➤ Aegon USA	Jun-13	High Yield Bonds	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a	✗	Limited track record.
➤ Franklin Advisers	Jun-13	High Yield Bonds	✓	✓	n/a	n/a	n/a	n/a	n/a	n/a	✓	Limited track record.

¹Current Quarter, 1-Yr, 3-Yrs, and 5-Yrs returns are net of fees. Since Inception returns are gross of fee.

²Managers are placed on the Watch List for concerns with organization, process, and performance. Managers are normally on the Watch List for 6 months though can be longer if manager issues still remain but not severe enough to warrant contract termination recommendation.

LEGEND			
✓	outperformed index	I	index
✗	underperformed index	U	universe median
=	equal to index		

Baird Advisors

Mandate: Intermediate Fixed Income

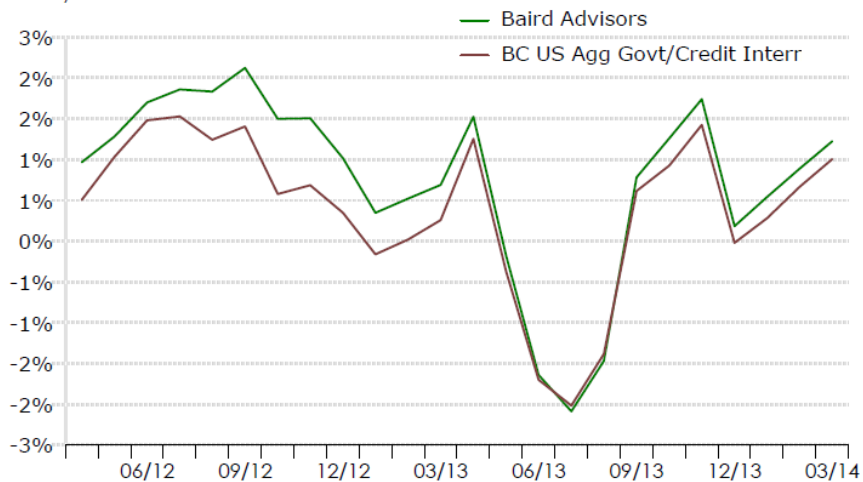
Benchmark: BC US Agg Govt/Credit Intermed

Strategy

Baird invests primarily in US investment-grade bonds in the government and credit sectors with 3-5 year maturities.

Performance

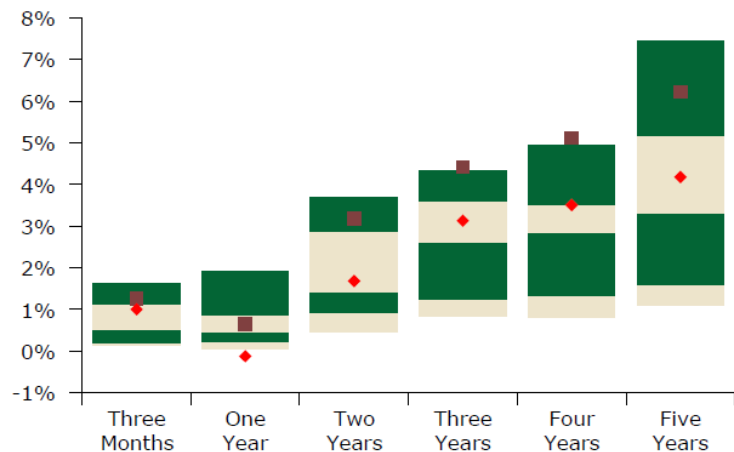
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Baird Advisors	1.2	0.5	3.0	4.3	6.1	5.1	Mar-2005
BC US Agg Govt/Cred	1.0	(0.1)	1.7	3.1	4.2	4.4	
Excess Return	0.2	0.6	1.3	1.2	1.9	0.7	

Objective: Outperform the benchmark by 15-40 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Baird Advisors	1.3	0.7	3.2	4.4	5.1	6.2
Rank	22	46	17	9	7	24
◆ BC US Agg Govt/Cred	1.0	(0.1)	1.7	3.1	3.5	4.2
Rank	35	95	46	32	25	33
10th Percentile	1.6	1.9	3.7	4.3	4.9	7.4
1st Quartile	1.1	0.9	2.9	3.6	3.5	5.2
Median	0.5	0.4	1.4	2.6	2.8	3.3
3rd Quartile	0.2	0.2	0.9	1.2	1.3	1.6
90th Percentile	0.1	0.0	0.4	0.8	0.8	1.1
Number Of Observations	46	36	30	35	37	32

LM Capital Group

Mandate: Intermediate Fixed Income

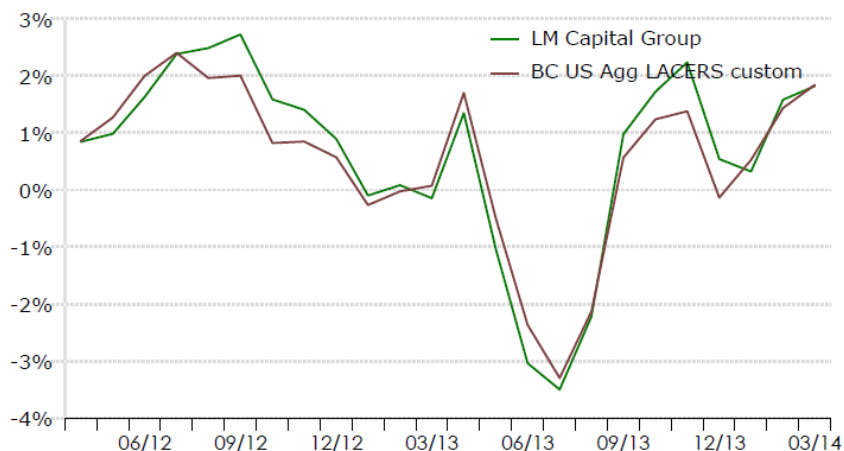
Benchmark: BC US Agg LACERS

Strategy

LM Capital invests primarily in US investment-grade bonds in the government and credit sectors with 3-5 year maturities.

Performance

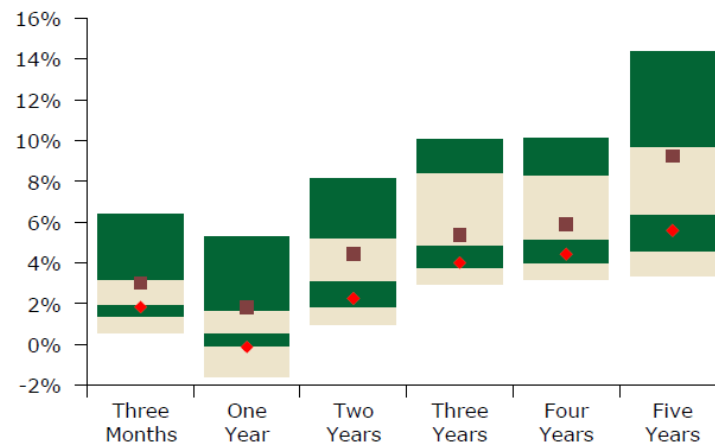
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
LM Capital Group	1.8	0.2	2.7	3.9	6.5	5.4	Mar-2005
BC US Agg LACERS c	1.8	(0.1)	2.3	3.8	4.6	4.7	
<i>Excess Return</i>	(0.0)	0.3	0.4	0.1	1.9	0.7	

Objective: Outperform the benchmark by 30-80 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ LM Capital Group	1.9	0.4	2.8	4.1	4.5	6.7
Rank	5	59	26	16	18	23
◆ BC US Agg LACERS	1.8	(0.1)	2.3	3.8	4.0	4.6
Rank	6	95	30	20	20	26
10th Percentile	1.6	1.9	3.7	4.3	4.9	7.4
1st Quartile	1.1	0.9	2.9	3.6	3.5	5.2
Median	0.5	0.4	1.4	2.6	2.8	3.3
3rd Quartile	0.2	0.2	0.9	1.2	1.3	1.6
90th Percentile	0.1	0.0	0.4	0.8	0.8	1.1
Number Of Observations	46	36	30	35	37	32

Loomis Sayles

Mandate: US Fixed Income Manager

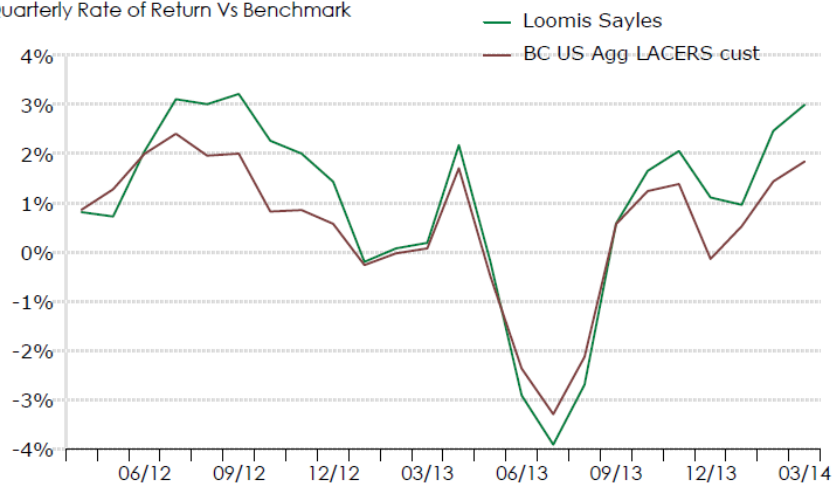
Benchmark: BC US Agg LACERS

Strategy

Loomis invests primarily in US investment-grade bonds rated BBB- or higher by Moodys.

Performance

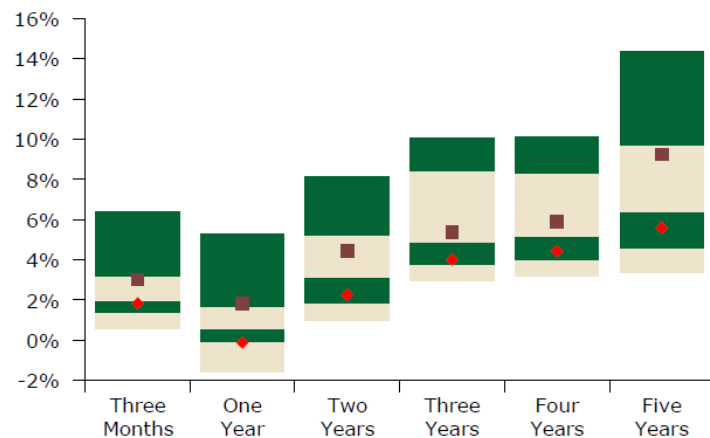
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Loomis Sayles	3.0	1.7	4.3	5.2	9.1	9.8	Jun-1980
BC US Agg LACERS c	1.8	(0.1)	2.3	4.0	5.6	8.2	
<i>Excess Return</i>	<i>1.2</i>	<i>1.8</i>	<i>2.0</i>	<i>1.2</i>	<i>3.5</i>	<i>1.6</i>	

Objective: Outperform the benchmark by 50 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Loomis Sayles	3.0	1.8	4.4	5.4	5.9	9.2
Rank	28	24	33	43	37	27
◆ BC US Agg LACERS	1.8	(0.1)	2.3	4.0	4.4	5.6
Rank	59	76	66	70	66	63
10th Percentile	6.4	5.3	8.1	10.1	10.1	14.4
1st Quartile	3.2	1.7	5.2	8.4	8.3	9.7
Median	2.0	0.6	3.1	4.9	5.2	6.4
3rd Quartile	1.4	(0.1)	1.8	3.8	4.0	4.6
90th Percentile	0.6	(1.6)	1.0	2.9	3.2	3.3
Number Of Observations	417	395	338	321	292	252

Neuberger Berman

Mandate: US Fixed Income Manager

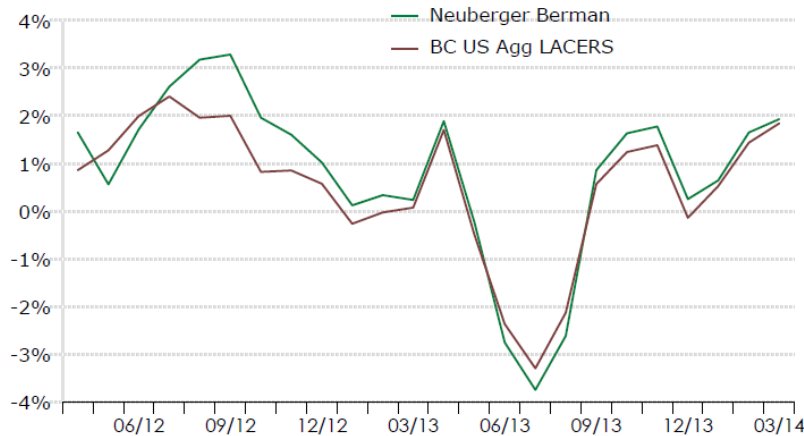
Benchmark: BC US Agg LACERS

Strategy

Neuberger invests in investment-grade bonds rated BBB- or higher by Moodys.

Performance

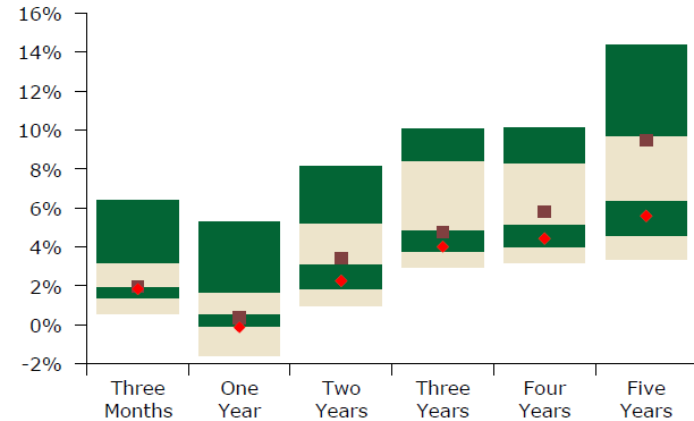
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Neuberger Berman	1.9	0.2	3.3	4.5	9.3	7.5	Nov-1990
BC US Agg LACERS	1.8	(0.1)	2.3	4.0	5.6	6.6	
<i>Excess Return</i>	<i>0.1</i>	<i>0.3</i>	<i>1.0</i>	<i>0.5</i>	<i>3.7</i>	<i>0.9</i>	

Objective: Outperform the benchmark by 100 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Neuberger Berman	2.0	0.4	3.4	4.8	5.8	9.5
◆ BC US Agg LACERS	1.8	(0.1)	2.3	4.0	4.4	5.6
Rank	52	56	44	52	39	26
Rank	59	76	66	70	66	63
10th Percentile	6.4	5.3	8.1	10.1	10.1	14.4
1st Quartile	3.2	1.7	5.2	8.4	8.3	9.7
Median	2.0	0.6	3.1	4.9	5.2	6.4
3rd Quartile	1.4	(0.1)	1.8	3.8	4.0	4.6
90th Percentile	0.6	(1.6)	1.0	2.9	3.2	3.3
Number Of Observations	417	395	338	321	292	252

Aegon USA

Mandate: High Yield Fixed Income

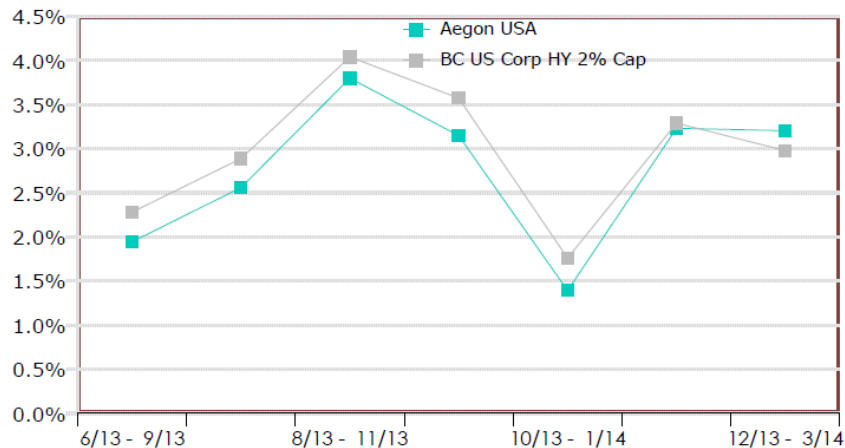
Benchmark: BC US Corp HY 2% Cap

Strategy

Aegon USA Investment Management, LLC. primarily invests in fixed income securities that are issued by corporations with high yield ratings (below investment grade) with a heavy focus on controlling credit risk via in-depth research of all issuers in the portfolio.

Performance

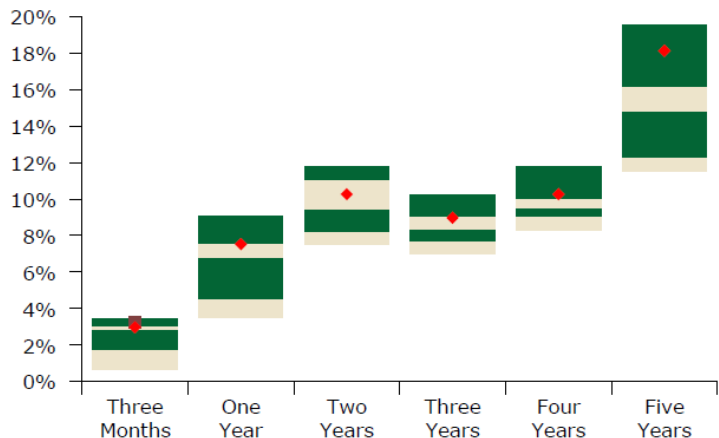
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Aegon USA	3.2	--	--	--	--	8.6	Jun-2013
BC US Corp HY 2% C	3.0	--	--	--	--	9.1	
Excess Return	0.2	--	--	--	--	(0.5)	

Objective: Outperform the benchmark by 200 bps, annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
■ Aegon USA	3.3	--	--	--	--	--
Rank	13	--				
◆ BC US Corp HY 2% C	3.0	7.5	10.3	9.0	10.3	18.1
Rank	35	28	32	31	22	20
10th Percentile	3.5	9.1	11.8	10.2	11.8	19.5
1st Quartile	3.1	7.6	11.1	9.1	10.0	16.2
Median	2.8	6.8	9.5	8.4	9.5	14.8
3rd Quartile	1.8	4.6	8.3	7.7	9.1	12.3
90th Percentile	0.6	3.5	7.5	7.0	8.3	11.6
Number Of Observations	31	31	29	22	20	18

Franklin Advisers

Mandate: High Yield Fixed Income

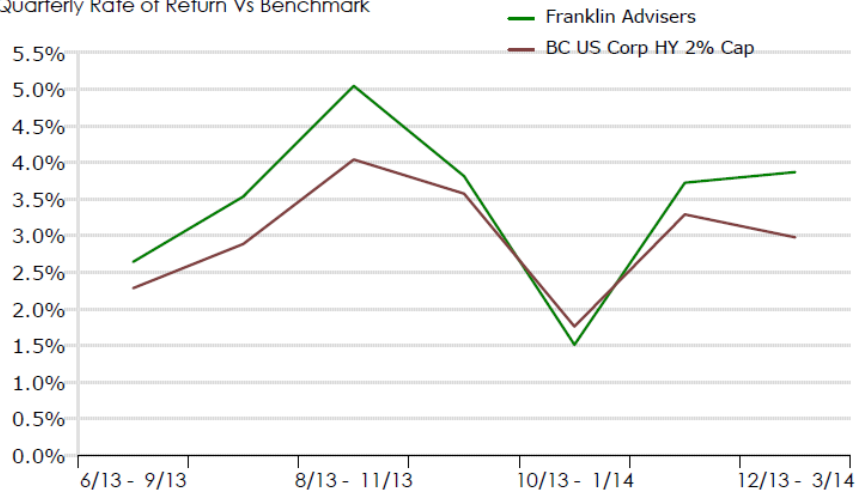
Benchmark: BC US Corp HY 2% Cap

Strategy

Franklin Advisers, Inc. invests in U.S. high yield corporate bond market that focus on fundamental credit analysis of corporate issuers across the high yield market with a goal of identifying those securities offering the potential for strong risk-adjusted total returns.

Performance

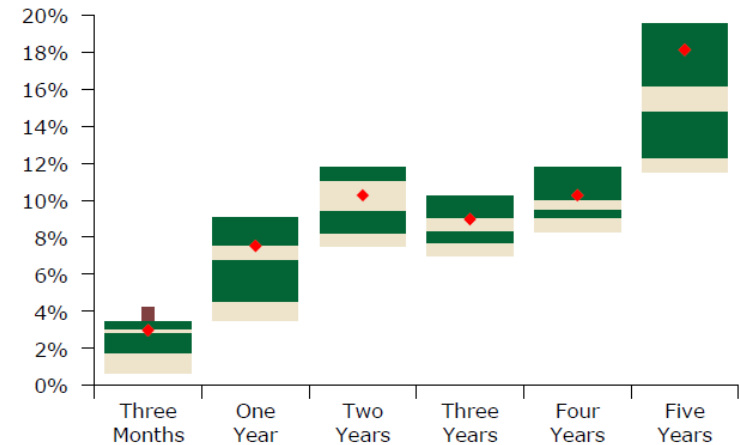
Quarterly Rate of Return Vs Benchmark



Net Returns %	LCQ	1 Yr.	2 Yrs.	3 Yrs.	5 Yrs.	Gross ITD Return	Inception Date
Franklin Advisers	3.9	--	--	--	--	10.8	Jun-2013
BC US Corp HY 2% C	3.0	--	--	--	--	9.1	
Excess Return	0.9	--	--	--	--	1.7	

Objective: Outperform the benchmark by 200 bps , annualized over a full market cycle (normally 3-5 years).

Quartile Rankings



	QTD	1 Yr.	2 Yrs.	3 Yrs.	4 Yrs.	5 Yrs.
Franklin Advisers	3.9	--	--	--	--	--
Rank	3					
BC US Corp HY 2% C	3.0	7.5	10.3	9.0	10.3	18.1
Rank	35	28	32	31	22	20
10th Percentile	3.5	9.1	11.8	10.2	11.8	19.5
1st Quartile	3.1	7.6	11.1	9.1	10.0	16.2
Median	2.8	6.8	9.5	8.4	9.5	14.8
3rd Quartile	1.8	4.6	8.3	7.7	9.1	12.3
90th Percentile	0.6	3.5	7.5	7.0	8.3	11.6
Number Of Observations	31	31	29	22	20	18



LACERS
LOS ANGELES CITY EMPLOYEES'
RETIREMENT SYSTEM

Definitions

I. Asset Allocation

- Market %: market value as a percent of the total fund's market value.
- Target %: investment policy on target allocation for each asset classes.
- Minimum and Maximum %: range of allocation for each asset classes.

II. Policy Benchmarks

• Current (adopted January 24, 2012)

- ◆ U.S Equity: 24% Russell 3000
- ◆ Non-U.S Equity: 29% MS ACWI ex U.S. Net Div
- ◆ Fixed Income: 19% Barclays Capital (BC) Aggregate
- ◆ Credit Opportunities: 5% 65% Barclays U.S. High Yield Capped / 35% JP Morgan EMBI - Global Diversified
- ◆ Public Real Assets: 5% CPI + 5%
- ◆ Private Real Estate: 5% NCREIF + 100 bps annually
- ◆ Private Equity: 12% Russell 3000 plus 300 bps annually.
- ◆ Cash: 1% 90-day Treasury Bill
- ◆ **Total:** 24% U.S. Equity; 29% Non-U.S. Equity; 19% Fixed Income; 5% Credit Opportunities; 5% Public Real Assets; 5% Private Real Estate; 12% Private Equity; 1% Cash

• Prior (adopted October 13, 2009)

- ◆ U.S Equity: 27% Russell 3000
- ◆ Non-U.S Equity: 20% MS ACWI ex U.S. Net Div
- ◆ Core Fixed Income: 26% Barclays Capital (BC) Universal
- ◆ Private Real Estate: 7% NCREIF
- ◆ Private Equity: 9% Russell 3000 plus 400 bps annually.
- ◆ Cash: 1% 90-day Treasury Bill
- ◆ **Total:** 37% U.S. Equity; 20% Non-U.S. Equity; 26% Core Fixed Income; 7% Private Real Estate; 9% Private Equity; 1% Cash

III. Indices

- **Cash**

Salomon Brothers 3-Month Treasury Bills: an average of the last three 3-month treasury bill issues' monthly return equivalents of yield averages, which are not marked to market. Month-end discount yields are converted to bond-equivalent yields, then a simple average is taken, and that number is decomposed to a monthly return using the actual number of days in the month and a 365-day year.

- **Equity**

- ◆ **Dow Jones Industrial Average:** This index is the price-weighted average of 30 actively traded blue chip stocks.
- ◆ **NASDAQ:** A market value weighted index that measures all domestic and non-US based securities, more than 4700 companies listed on the NASDAQ stock market.
- ◆ **Russell Midcap Value:** contains Russell Midcap stocks having less-than-average growth orientation and are included in the Russell 1000 Value Index.
- ◆ **Russell 1000:** consists of the 1000 largest securities in the Russell 3000 Index. The Russell 1000 is capitalization-weighted.
- ◆ **Russell 1000 Growth:** contains Russell 1000 stocks having greater-than-average growth orientation. Stocks tend to exhibit lower dividend yields and higher price-to-book ratios, price-earnings ratios and forecast growth values than the Value universe. The index is capitalization-weighted (as opposed to equal-weighted).
- ◆ **Russell 1000 Value:** contains those Russell 1000 securities with a less-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields and lower forecasted growth values than the Growth universe. Russell 1000 Value is capitalization-weighted.
- ◆ **Russell 2000:** contains the smallest 2,000 stocks in the Russell 3000 Index, representing approximately 11% of the Russell 3000 total market capitalization. The index is capitalization-weighted (as opposed to equal-weighted).
- ◆ **Russell 2000 Growth:** contains those Russell 2000 securities with a greater-than-average growth orientation. Securities in this index tend to exhibit higher price-to-book and price-earnings ratios, lower dividend yields and higher forecasted growth values than the Value universe.
- ◆ **Russell 2000 Value:** contains those Russell 2000 securities with a less-than-average growth orientation. Securities in this index tend to exhibit lower price-to-book and price-earnings ratios, higher dividend yields and lower forecasted growth values than the Growth universe.
- ◆ **Russell 3000:** measures performance of the 3000 largest US companies based on total market capitalization. This index represents approximately 98% of the investable US equity market. The Russell 3000 is capitalization-weighted.
- ◆ **Standard and Poor 500:** the S&P, which represents approximately 75% of NYSE market capitalization and 30% of NYSE issues, contains 500 industrial, utility, transportation and financial companies in the U.S. markets (mostly

NYSE issues). The S&P is capitalization-weighted (as opposed to equal-weighted), calculated on a total return basis with dividends reinvested.

- ◆ **Morgan Stanley All Country World ex USA:** an arithmetic, market value-weighted average of approx. 1800 securities from outside the United States. The index is calculated on a total return basis, including reinvestment of gross dividends before deduction of withholding taxes.
- ◆ **Morgan Stanley World ex USA:** contains securities of all of the following developed counties, excluding U.S.: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom, Israel, Australia, New Zealand, Singapore, Hong Kong, and Japan.
- ◆ **Morgan Stanley Capital International Emerging Markets Free:** contains securities of the following counties which are available to all investors regardless of local status: Argentina, Brazil, Chile, Colombia, Greece, India, Indonesia, Israel, Jordan, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Portugal, South Africa, Sri Lanka, Thailand, Turkey and Venezuela.
- ◆ **Morgan Stanley Capital International Emerging Markets ND:** contains securities of the following counties which are available to all investors regardless of local status: Argentina, Brazil, Chile, Colombia, Greece, India, Indonesia, Israel, Jordan, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Portugal, South Africa, Sri Lanka, Thailand, Turkey and Venezuela. The index is computed using the net return, which withholds applicable taxes for non-resident investors.
- ◆ **Morgan Stanley Capital International EAFE Value Gross:** contains securities of large and mid-cap in the following developed counties, excluding U.S. and Canada: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom, Israel, Australia, New Zealand, Singapore, Hong Kong, and Japan.
- ◆ **Morgan Stanley Capital International EAFE Small Cap:** contains securities of small-capitalization in the following developed counties, excluding U.S. and Canada: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom, Israel, Australia, New Zealand, Singapore, Hong Kong, and Japan.
- **Fixed Income**
 - ◆ **Barclays Capital Aggregate:** an aggregate of the Government/Corporate Bond Index, the Mortgage-Backed Securities Index, and the Asset-Backed Securities Index. The index contains fixed rate debt issues with at least one-year maturity, \$100 million par value outstanding, and investment grade ratings by Moody's, S&P or Fitch (in that order). Returns are market-value weighted inclusive of accrued interest.

- ◆ **Barclays Capital Universal:** This index contains the Barclays Capital Aggregate index bonds plus approximately 10% of the remaining index includes US High Yield, Eurodollar, Emerging Markets, 144A Private Placements, and CMBS bonds.
- ◆ **Barclays Capital US Govt/Credit Intermediate:** This index is a sub-component of the Barclays Capital Aggregate index. Bonds consist of the US Treasury, US Agency (non-MBS), and US Investment-grade credit holdings with a maturity range of 1 to 10 years.
- ◆ **Barclays U.S. High Yield 2% Capped:** This index is an unmanaged index that covers U.S. corporate, fixed-rate, non-investment grade debt with at least one year to maturity and at least \$150 million in par outstanding. Index weights for each issuer are capped at 2%.
- ◆ **Bond Rating Methodology:** Bond ratings are intended to characterize the risk associated with holding a particular bond or categories of bonds. These ratings are the risk assessed by the market and that the bond issuer must pay to attract purchasers to the bond. These ratings are expressed as a series of letters and sequences.

Rating Categories in descending order:

- ◇ **AAA:** The best quality rating, stable cash flows, very protective bond covenants, very low probability of default.
- ◇ **Aa:** The second best rating. Stable cash flows, less protective bond covenants, very low probability of default.
- ◇ **A:** Stable cash flows, less protective bond covenants, long-term probability of default is higher than AAA or Aa.
- ◇ **Baa:** Medium quality rating, reliable cash flows short term, less-reliable cash flows long term, bond covenants offer limited protection. Moderate probability of default. Downgrade to a lower rating is also possible. Baa bonds are the lowest rating still considered 'investment grade.
- ◇ **Ba thru B:** Highly speculative. Long-term assurance of cash flows and protective elements are low. Purchasers of these bonds generally specialize in assessing credit risk of specific bond issues. Much higher spreads versus investment grade bonds provide the incentive for purchasers. High default or downgrade risk.
- ◇ **Caa thru C:** Poor standing. Either close to default or in default. Highly probable loss of principal.
- ◇ **D:** Coupon payments were not paid on the due date which puts the bond in default. Unless both Protective covenants and issuer assets are adequate (not likely), holder loses all likelihood of recovering principal.

- **Private Real Estate**

NCREIF Property Index: the NPI contains investment-grade, non-agricultural, income-producing properties which may be financed in excess of 5% gross market value; were acquired on behalf of tax exempt institutions; and are held in a fiduciary environment. Data is collected quarterly from a membership of investment managers and plan sponsors. Returns are gross of fees; include income, realized gains/losses, and appreciation/depreciation; and are market-value weighted. Property values are determined by consistent appraisal methodology and sold properties are removed in the quarter of the sale (the historical data remains). Current quarter performance is preliminary.

IV. Universe Comparison

All Northern Trust Universes are gross of fees. Universe breaks are at 10, 25, 50, 75 and 90 percentiles.

- **TUCS Plan Universes**

Published on a quarterly basis using monthly observations. Over time, the plan population members will change due to new plans being introduced and other plans closing or leaving the universe.

Public Funds

Includes the range of performance of all Public Funds greater than 10 billion dollars. Monitored by the Wilshire's Trust Universe Comparison Services Group. Plans include state and municipal plans and systems.

- **Manager Universes**

Created using the performance of managers used by sponsor subscribers to the Risk & Performance Services Group (RPS). Each occurrence of a manager is considered as an observation. The manager universes are used to describe the actual experience of plan sponsors use of the managers; no manager supplied representative portfolios or composites are used in the creation of the universes. All occurrences of a manager are included in the magnitudes they are used by the sponsors; no stratification or judgments are introduced by RPS to alter a manager's representation. Manager portfolios are used from all market segments (ERISA, Public, Foundation & Endowments, and Wealth) since managers are hired to fulfill a specific policy objective that is not unique by plan type. Inclusion in a universe is based upon quantitative screening using the criteria described; an RPS analyst determines the comparison of a manager to this style background for reporting purposes. The portfolio criteria are applied as the average of the values over the time period being observed and not simply the current point in time value.

- ◆ **U.S. Equity - Large Cap Core**
Includes portfolios with a portfolio average market capitalization greater than \$10 billion but not displaying any significant growth or value bias. The Barra Growth and Barra Book to Price risk factors are used to determine style orientation. Most of the portfolios also display a market-like beta.
- ◆ **U.S. Equity - Large Cap Growth**
Includes portfolios with a portfolio average market capitalization greater than \$10 billion. Portfolios will also display a significant growth bias as represented by a Barra Growth Risk Factor in the top 40% of all US equity portfolios and a Barra Price/Book score in the bottom 70% of all US equity portfolios monitored by RPS. Most growth portfolios display an above market beta.
- ◆ **U.S. Equity - Large Cap Value**
Includes portfolios with a portfolio average market capitalization greater than \$10 billion. Portfolios will also display a significant value bias as represented by a Barra Price/Book score in the top 30% of all US equity portfolios monitored by RPS. Most value portfolios display a below market beta and above market dividend yield.
- ◆ **U.S. Equity - Small Cap Growth**
Includes portfolios with a portfolio average market capitalization of less than \$2 billion. Small Cap Growth portfolios will also display a growth bias as represented by a Barra Growth Risk Factor in the top 31% of all US equity portfolios monitored by RPS.
- ◆ **U.S. Equity - Small Cap Value**
Includes portfolios with a portfolio average market capitalization of less than \$2 billion. Small Cap Value portfolios will also display a value bias as represented by a Barra Price/Book score in the top 27% and a Barra Growth factor score in the bottom 31% of all US equity portfolios monitored by RPS.
- ◆ **Non-U.S. Equity - Developed Markets**
Includes all managers investing in developed markets outside of North America. The majority of the portfolios in this universe are EAFE-oriented but may contain an opportunistic allocation to emerging markets equity (extended EAFE). There are a few regional non-US equity managers (Europe & Pacific Basin) also represented.

◆ **Non-U.S. Equity - Emerging Markets**

Includes all managers investing in emerging markets. The universe includes emerging markets managers that are diversified across all emerging markets as well as specialists in regional emerging markets.

◆ **U.S. Core Fixed Income**

Includes all managers, active and passive, investing in US Fixed Income.

◆ **Credit Opportunities**

Includes all managers, active and passive, investing in US high yield and emerging market debt managers.

◆ **Public Real Assets**

Includes all managers investing in Public REITS, TIPS, Commodities, and Multi Asset Real Asset/Return managers.

V. Investment Performance

- Time: the internal rate of return (accounting for daily cash flows) monthly based on trade-date, full accrual accounting, and using market values. For periods of greater than one month, a time series of linked monthly returns is maintained, introducing a time weighted effect.
- The Private Real Estate and the Private Equity returns are lagged one quarter.
- The LACERS Total Fund return is dollar-weighted to include Private Equity.

VI. Performance Attribution

• **Holdings-Based Attribution.**

U.S. Equity, Non-U.S. Equity, and Fixed Income tables are Holdings-based. The table details various attribution subcategories which impacted each manager's performance such as: selection, weighting, duration, yield, quality, etc.

VII. Terminology

- **Duration:** A measure of the sensitivity of the price (the value of principal) of a fixed-income portfolio given a 1% change in the US Treasury yield curve (interest rates). A portfolio with a duration of 4 would be expected to lose 4% of

its value when interest rates rise 1%. Duration is expressed as a number of years. Rising interest rates mean falling bond prices, while declining interest rates mean rising bond prices.

- **Information ratio:** A ratio of portfolio returns above the returns of a benchmark (usually an index) to the volatility of those returns. The information ratio (IR) measures a portfolio manager's ability to generate excess returns relative to a benchmark, but also attempts to identify the consistency of the investor. This ratio will identify if a manager has beaten the benchmark by a lot in a few months or a little every month. The higher the IR the more consistent a manager is and consistency is an ideal trait.
- **Standard deviation:** A statistical measure of volatility or the degree to which an individual value in a probability distribution tends to vary from the mean of the distribution. A manager with a one-year return of 5% and a standard deviation of 5, indicates the range of returns for this manager will likely fall between 0% and 10% during most annual time periods.
- **Tracking error:** A measure of the difference between returns of the portfolio and that of the benchmark it was attempting to imitate; reported as a "standard deviation percentage" difference.