

Third Quarter 2017 Private Equity Review

Firefighters' Retirement System of Louisiana

February, 2018

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Table of Contents	Page
Summary Letter	1
Trailing Period Returns	5
Portfolio Value	6
Portfolio Value by Lifecycle	7
Portfolio Value by Vintage Year	8
Portfolio Value by Strategy	9
Transaction Summary	10

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- NEPC, LLC uses, as its data source, the plan's fund manager and custodian bank or fund service company, and NEPC, LLC relies on those sources for all transactions, including capital calls, distributions, income/expense and reported values. While NEPC, LLC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- The Investment Performance Analysis is provided as a management aid for the client's internal use only. Portfolio performance reported in the Investment Performance Analysis does not constitute a recommendation by NEPC, LLC.
- Information in this report on market indices and security characteristics is received from sources external to NEPC, LLC. While efforts are made to ensure that this external data is accurate, NEPC, LLC cannot accept responsibility for errors that may occur.



NEPC, LLC

February, 2018

Firefighters' Retirement System of Louisiana

RE: Private Markets Strategy – 3rd Quarter 2017

Dear Members,

We are pleased to present the September 30, 2017 Private Equity Report for the Firefighters' Retirement System of Louisiana. The report provides a variety of performance analysis for the overall portfolio. The reports include trailing performance, performance by investment stage and vintage year performance.

The Firefighters' Retirement System of Louisiana experienced a positive quarter, having a nominal IRR of 1.69%. The IRR since inception is 0.94%. The overall multiple (current valuation plus cumulative distributions, divided by total capital calls) is 1.04.

The following table presents the status of the Firefighters' Retirement System of Louisiana private markets portfolio as of September 30, 2017:

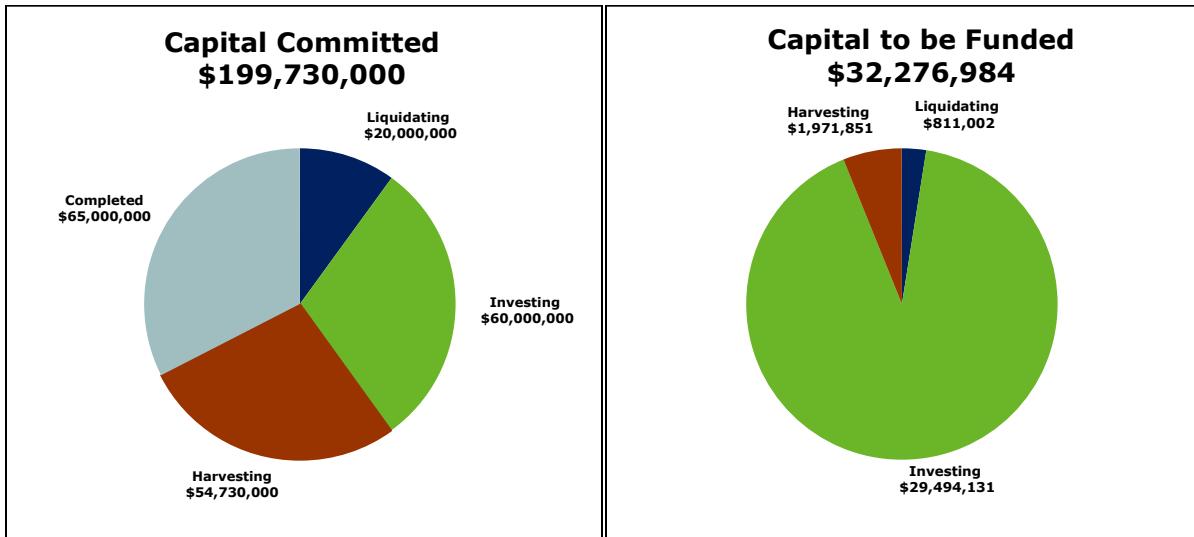
Commitments	Terminated Commitments	Amount Funded	Amount Distributed	Reported Value	Call Ratio	Distribution Ratio
\$199,730,000	\$0	\$166,879,813	\$127,035,725	\$47,034,371	83.55%	76.12%

Unfunded Commitments	Market Exposure (Reported Value + Unfunded Commitments)	Total Fund Composite as of 9/30/2017	Alternative Assets Target	Reported Value as a % of Total Fund	Market Exposure as a % Total Fund
\$32,276,984	\$79,311,355	\$1,610,405,293	4%*	2.92%	4.9%

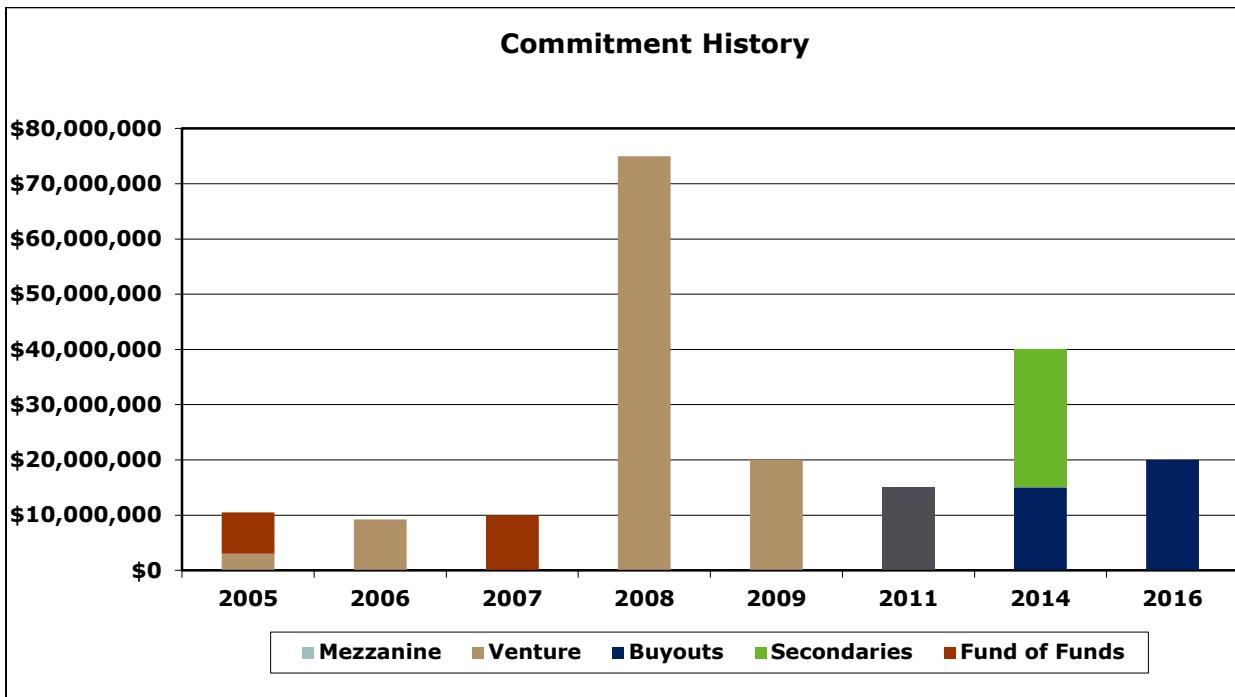
Total Value (Reported Value + Distributions)	Total Value To Paid In Capital	Internal Rate of Return IRR, Since Inception (January 2005)
\$174,070,096	1.04	0.94%



As of September 30, 2017, the Firefighters' Retirement System of Louisiana had commitments totaling \$199.73 million to 13 private markets fund. Of the 13 funds in the private equity portfolio, 3 are in the investing stage, 6 are in the harvesting stage, 1 is liquidating, and 3 have been completed. The following charts illustrate the program's current life cycle:

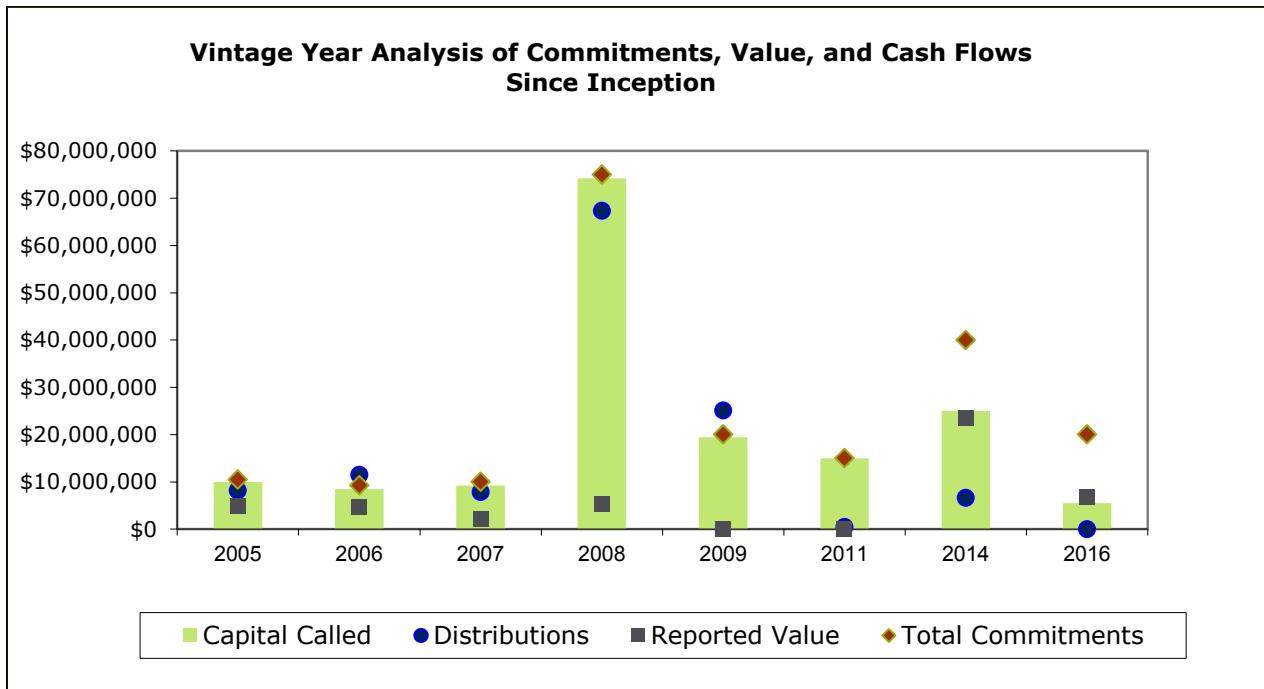


The following chart illustrates the commitment history of the Firefighters' Retirement System of Louisiana private markets program through the quarter end:





The following chart provides an analysis of the vintage year performance comparing the capital calls to the distributions and reported value:

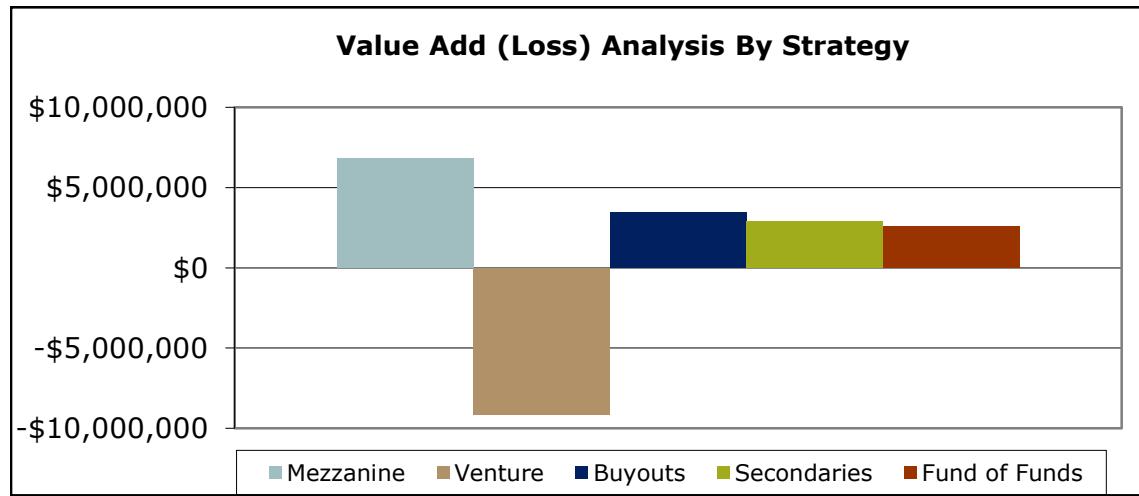


During the quarter-ended September 30, 2017, 3 funds in the Firefighters' Retirement System of Louisiana private markets portfolio drew capital and 4 funds made a distribution. The summary of the cash flow follows:

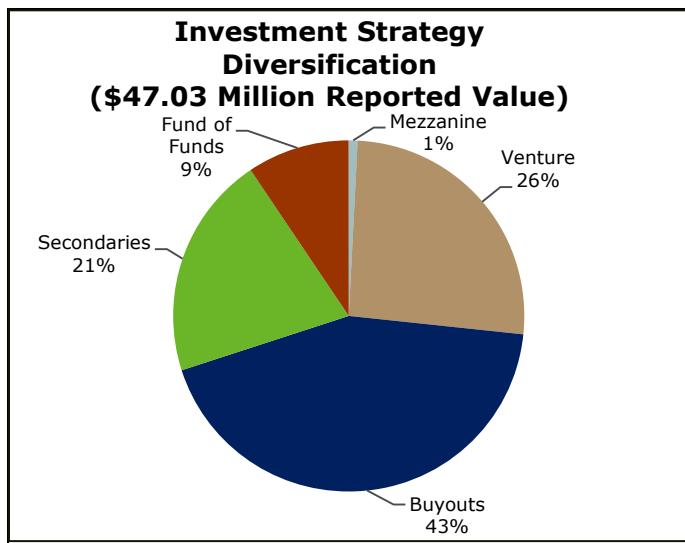
Calls & Expenses Funded for the Quarter	Number of Funds Calling Capital & Expenses	Distributions for the Quarter	Number of Funds Making Distributions	Net Cash/Stock Flows for the Quarter
\$1,041,614	3	\$1,555,514	4	\$513,900



Since inception the private markets program has gained \$6.66 million in value for the Firefighters' Retirement System of Louisiana. Mezzanine added \$6.84 million, Fund of Funds added \$2.59 million, Buyouts added \$3.47 million and Secondaries added \$2.91 million. Venture has lost (\$9.14) million.



As of September 30, 2017, the 13 private markets funds in the Firefighters' Retirement System of Louisiana portfolio had the following investment strategy diversification by the investment fund's reported value:



We thank you for the opportunity to work with the Firefighters' Retirement System of Louisiana and look forward to continued success in the future.

Best regards,

David Barnes, CFA, CAIA
Senior Consultant

Firefighters' Retirement System of Louisiana

Executive IRR Summary

9/30/2017

Investment Name	Vintage Year	Commitment Amount	QTD	YTD	1 Year	3 Year	5 Year	Inception
CCMP Capital Investors III, L.P.	2014	15,000,000	-4.75	2.09	3.56	10.76		9.72
DCM Private Equity Fund II	2007	10,000,000	-0.28	-1.55	-2.69	-6.56	-0.37	0.11
DTC Private Equity II-Q, L.P.	2005	7,500,000	1.69	14.59	15.54	5.32	10.55	5.40
Franchise Capital Partners II, L.P.	2008	20,000,000	66.66	60.08	2.30	-11.59	1.77	1.66
Franchise Capital Partners III, L.P.	2009	20,000,000		6.70	7.18	23.01	-3.47	7.91
Greenspring Crossover Ventures, L.P.	2008	25,000,000	3.76	-7.89	14.30	19.82	27.37	11.71
Greenspring Global Partners III-A, L.P.	2006	9,230,000	2.45	2.80	3.40	13.75	17.51	11.22
HarbourVest Partners Co-Investment IV	2016	20,000,000	7.75	18.22				21.35
Landmark Equity Partners XV, L.P.	2014	25,000,000	4.09	7.74	16.89			15.88
Louisiana Fund I	2005	1,000,000	0.03	-0.56	-7.37	-5.01	-3.49	7.25
Murphree Venture Partners VI, LP	2005	2,000,000	0.05	-0.09	-0.84	-0.77	-10.61	-2.89
Sail Sustainable Louisiana LP	2011	15,000,000						
SAIL Venture Partners II	2008	30,000,000						
Total: Firefighters' Retirement System of Louisiana		199,730,000	1.69	4.71	9.43	6.58	-5.18	0.94

Firefighters' Retirement System of Louisiana

Performance Analysis

9/30/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
1 CCMP Capital Investors III, L.P.	2014	15,000,000	11,850,416	3,149,584	-103,740	337,310	13,701,456	14,038,766	2,292,090	79%	0.03	1.20	9.72%
2 DCM Private Equity Fund II	2007	10,000,000	9,261,549	738,451	707,358	7,856,633	2,171,342	10,027,975	59,068	93%	0.79	1.01	0.11%
3 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,275,000	2,257,233	9,532,233	2,527,233	93%	1.04	1.36	5.40%
4 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,979,706	386,163	20,365,869	1,176,871	96%	1.04	1.06	1.66%
5 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	0	0	25,089,905	0	25,089,905	5,663,108	100%	1.29	1.29	7.91%
6 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,825,119	50,489,331	25,489,331	100%	1.83	2.02	11.71%
7 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,735,866	16,264,525	7,772,925	92%	1.36	1.92	11.22%
8 HarbourVest Partners Co-Investment IV	2016	20,000,000	5,500,000	14,500,000	0	0	6,678,255	6,678,255	1,178,255	28%	0.00	1.21	21.35%
9 Landmark Equity Partners XV, L.P.	2014	25,000,000	13,155,453	11,844,547	-74,562	6,305,127	9,681,029	15,986,156	2,905,265	53%	0.48	1.22	15.88%
10 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,827,765	1,853,082	853,082	100%	0.03	1.85	7.25%
11 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	770,143	1,618,602	-381,398	100%	0.42	0.81	-2.89%
12 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
13 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Total: Firefighters' Retirement System of Louisiana		199,730,000	166,879,813	32,276,984	529,056	127,035,725	47,034,371	174,070,097	6,661,228	84%	0.76	1.04	0.94%

Firefighters' Retirement System of Louisiana

Lifecycle Performance Analysis

9/30/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
2 Investing													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	11,850,416	3,149,584	-103,740	337,310	13,701,456	14,038,766	2,292,090	79%	0.03	1.20	9.72%
2 HarbourVest Partners Co-Investment IV	2016	20,000,000	5,500,000	14,500,000	0	0	6,678,255	6,678,255	1,178,255	28%	0.00	1.21	21.35%
3 Landmark Equity Partners XV, L.P.	2014	25,000,000	13,155,453	11,844,547	-74,562	6,305,127	9,681,029	15,986,156	2,905,265	53%	0.48	1.22	15.88%
Subtotal: 2 Investing		60,000,000	30,505,869	29,494,131	-178,302	6,642,437	30,060,740	36,703,177	6,375,610	51%	0.22	1.21	13.35%
3 Harvesting													
1 DCM Private Equity Fund II	2007	10,000,000	9,261,549	738,451	707,358	7,856,633	2,171,342	10,027,975	59,068	93%	0.79	1.01	0.11%
2 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,275,000	2,257,233	9,532,233	2,527,233	93%	1.04	1.36	5.40%
3 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,825,119	50,489,331	25,489,331	100%	1.83	2.02	11.71%
4 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,735,866	16,264,525	7,772,925	92%	1.36	1.92	11.22%
5 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,827,765	1,853,082	853,082	100%	0.03	1.85	7.25%
6 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	770,143	1,618,602	-381,398	100%	0.42	0.81	-2.89%
Subtotal: 3 Harvesting		54,730,000	52,758,149	1,971,851	707,358	73,198,279	16,587,468	89,785,748	36,320,241	96%	1.37	1.68	8.79%
4 Liquidating													
1 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,979,706	386,163	20,365,869	1,176,871	96%	1.04	1.06	1.66%
Subtotal: 4 Liquidating		20,000,000	19,188,998	811,002	0	19,979,706	386,163	20,365,869	1,176,871	96%	1.04	1.06	1.66%
5 Completed													
1 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	0	0	25,089,905	0	25,089,905	5,663,108	100%	1.29	1.29	7.91%
2 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
3 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 5 Completed		65,000,000	64,426,797	0	0	27,215,303	0	27,215,303	-37,211,494	99%	0.42	0.42	-22.22%
Total: Firefighters' Retirement System of Louisiana		199,730,000	166,879,813	32,276,984	529,056	127,035,725	47,034,371	174,070,097	6,661,228	84%	0.76	1.04	0.94%

Firefighters' Retirement System of Louisiana

Vintage Year Performance Analysis

9/30/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
2005													
1 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,275,000	2,257,233	9,532,233	2,527,233	93%	1.04	1.36	5.40%
2 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,827,765	1,853,082	853,082	100%	0.03	1.85	7.25%
3 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	770,143	1,618,602	-381,398	100%	0.42	0.81	-2.89%
Subtotal: 2005		10,500,000	10,005,000	495,000	0	8,148,776	4,855,141	13,003,917	2,998,917	95%	0.81	1.30	4.09%
2006													
1 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,735,866	16,264,525	7,772,925	92%	1.36	1.92	11.22%
Subtotal: 2006		9,230,000	8,491,600	738,400	0	11,528,659	4,735,866	16,264,525	7,772,925	92%	1.36	1.92	11.22%
2007													
1 DCM Private Equity Fund II	2007	10,000,000	9,261,549	738,451	707,358	7,856,633	2,171,342	10,027,975	59,068	93%	0.79	1.01	0.11%
Subtotal: 2007		10,000,000	9,261,549	738,451	707,358	7,856,633	2,171,342	10,027,975	59,068	93%	0.79	1.01	0.11%
2008													
1 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,979,706	386,163	20,365,869	1,176,871	96%	1.04	1.06	1.66%
2 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,825,119	50,489,331	25,489,331	100%	1.83	2.02	11.71%
3 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 2008		75,000,000	74,188,998	811,002	0	67,320,176	5,211,282	72,531,458	-1,657,540	99%	0.91	0.98	-0.47%
2009													
1 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	0	0	25,089,905	0	25,089,905	5,663,108	100%	1.29	1.29	7.91%
Subtotal: 2009		20,000,000	19,426,797	0	0	25,089,905	0	25,089,905	5,663,108	97%	1.29	1.29	7.91%
2011													
1 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
Subtotal: 2011		15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
2014													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	11,850,416	3,149,584	-103,740	337,310	13,701,456	14,038,766	2,292,090	79%	0.03	1.20	9.72%
2 Landmark Equity Partners XV, L.P.	2014	25,000,000	13,155,453	11,844,547	-74,562	6,305,127	9,681,029	15,986,156	2,905,265	53%	0.48	1.22	15.88%
Subtotal: 2014		40,000,000	25,005,869	14,994,131	-178,302	6,642,437	23,382,485	30,024,922	5,197,355	63%	0.27	1.21	12.41%
2016													
1 HarbourVest Partners Co-Investment IV	2016	20,000,000	5,500,000	14,500,000	0	0	6,678,255	6,678,255	1,178,255	28%	0.00	1.21	21.35%
Subtotal: 2016		20,000,000	5,500,000	14,500,000	0	0	6,678,255	6,678,255	1,178,255	28%	0.00	1.21	21.35%
Total: Firefighters' Retirement System of Louisiana		199,730,000	166,879,813	32,276,984	529,056	127,035,725	47,034,371	174,070,097	6,661,228	84%	0.76	1.04	0.94%

Firefighters' Retirement System of Louisiana

Investment Strategy Performance Analysis

9/30/2017

Investment Name	Vintage Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
100 Venture													
1 Greenspring Crossover Ventures, L.P.	2008	25,000,000	25,000,000	0	0	45,664,212	4,825,119	50,489,331	25,489,331	100%	1.83	2.02	11.71%
2 Greenspring Global Partners III-A, L.P.	2006	9,230,000	8,491,600	738,400	0	11,528,659	4,735,866	16,264,525	7,772,925	92%	1.36	1.92	11.22%
3 Louisiana Fund I	2005	1,000,000	1,000,000	0	0	25,317	1,827,765	1,853,082	853,082	100%	0.03	1.85	7.25%
4 Murphree Venture Partners VI, LP	2005	2,000,000	2,000,000	0	0	848,459	770,143	1,618,602	-381,398	100%	0.42	0.81	-2.89%
5 Sail Sustainable Louisiana LP	2011	15,000,000	15,000,000	0	0	449,140	0	449,140	-14,550,860	100%	0.03	0.03	N/A
6 SAIL Venture Partners II	2008	30,000,000	30,000,000	0	0	1,676,258	0	1,676,258	-28,323,742	100%	0.06	0.06	N/A
Subtotal: 100 Venture		82,230,000	81,491,600	738,400	0	60,192,045	12,158,893	72,350,938	-9,140,662	99%	0.74	0.89	-2.35%
120 Buyouts													
1 CCMP Capital Investors III, L.P.	2014	15,000,000	11,850,416	3,149,584	-103,740	337,310	13,701,456	14,038,766	2,292,090	79%	0.03	1.20	9.72%
2 HarbourVest Partners Co-Investment IV	2016	20,000,000	5,500,000	14,500,000	0	0	6,678,255	6,678,255	1,178,255	28%	0.00	1.21	21.35%
Subtotal: 120 Buyouts		35,000,000	17,350,416	17,649,584	-103,740	337,310	20,379,711	20,717,021	3,470,345	50%	0.02	1.20	11.76%
130 Mezzanine													
1 Franchise Capital Partners II, L.P.	2008	20,000,000	19,188,998	811,002	0	19,979,706	386,163	20,365,869	1,176,871	96%	1.04	1.06	1.66%
2 Franchise Capital Partners III, L.P.	2009	20,000,000	19,426,797	0	0	25,089,905	0	25,089,905	5,663,108	100%	1.29	1.29	7.91%
Subtotal: 130 Mezzanine		40,000,000	38,615,795	811,002	0	45,069,611	386,163	45,455,774	6,839,979	97%	1.17	1.18	4.70%
140 Secondaries													
1 Landmark Equity Partners XV, L.P.	2014	25,000,000	13,155,453	11,844,547	-74,562	6,305,127	9,681,029	15,986,156	2,905,265	53%	0.48	1.22	15.88%
Subtotal: 140 Secondaries		25,000,000	13,155,453	11,844,547	-74,562	6,305,127	9,681,029	15,986,156	2,905,265	53%	0.48	1.22	15.88%
170 Fund of Funds													
1 DCM Private Equity Fund II	2007	10,000,000	9,261,549	738,451	707,358	7,856,633	2,171,342	10,027,975	59,068	93%	0.79	1.01	0.11%
2 DTC Private Equity II-Q, L.P.	2005	7,500,000	7,005,000	495,000	0	7,275,000	2,257,233	9,532,233	2,527,233	93%	1.04	1.36	5.40%
Subtotal: 170 Fund of Funds		17,500,000	16,266,549	1,233,451	707,358	15,131,633	4,428,575	19,560,208	2,586,301	93%	0.89	1.15	2.56%
Total: Firefighters' Retirement System of Louisiana		199,730,000	166,879,813	32,276,984	529,056	127,035,725	47,034,371	174,070,097	6,661,228	84%	0.76	1.04	0.94%

Firefighters' Retirement System of Louisiana

Transaction Summary

7/1/2017 - 9/30/2017

Date	Paid in Capital	Additional Fees	Distributions	Net Cash Flow
Firefighters' Retirement System of Louisiana				
CCMP Capital Investors III, L.P.				
08/03/2017	1,383,245.00			1,383,245.00
08/03/2017		48,503.00		1,334,742.00
08/03/2017	-753,570.00			581,172.00
09/14/2017	1,262,898.00			1,844,070.00
Total: CCMP Capital Investors III, L.P.				
	1,892,573.00		48,503.00	1,844,070.00
DCM Private Equity Fund II				
07/19/2017		4,020.19		4,020.19
07/19/2017	4,020.19			8,040.38
09/28/2017		328,370.14		-320,329.76
09/28/2017		4,742.89		-315,586.87
09/28/2017	-29,962.19			-345,549.06
Total: DCM Private Equity Fund II				
	-25,942.00		8,763.08	328,370.14
				-345,549.06
Franchise Capital Partners II, L.P.				
08/07/2017		207,839.00		-207,839.00
Total: Franchise Capital Partners II, L.P.				
		207,839.00		-207,839.00
HarbourVest Partners Co-Investment IV				
07/20/2017	-1,750,000.00			-1,750,000.00
Total: HarbourVest Partners Co-Investment IV				
	-1,750,000.00			-1,750,000.00
Landmark Equity Partners XV, L.P.				
07/14/2017		188,374.00		-188,374.00
08/04/2017		516,244.00		-704,618.00
08/25/2017	167,309.00			-537,309.00
08/31/2017		96,147.00		-633,456.00
09/11/2017	317,519.00			-315,937.00
09/14/2017	-249,639.00			-565,576.00
09/27/2017	681,031.00			115,455.00
09/29/2017		170,037.00		-54,582.00
Total: Landmark Equity Partners XV, L.P.				
	916,220.00		970,802.00	-54,582.00

Total:	1,032,851.00	8,763.08	1,555,514.14	-513,900.06
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