

# Second Quarter 2018 Private Equity Review

## Firefighters' Retirement System of Louisiana

October 2018

David Barnes, CFA, CAIA  
Senior Consultant



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### Information Disclosure

- 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.



October, 2018

Firefighters' Retirement System of Louisiana (FRS)

**RE:** Private Markets Strategy – 2<sup>nd</sup> Quarter 2018

Dear FRS,

We are pleased to present the June 30, 2018 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 4.04%. The IRR since inception is 1.41%. The overall multiple (current valuation plus cumulative distributions, divided by total capital calls) is 1.06.

The following table presents the status of the Firefighters' Retirement System of Louisiana private markets portfolio as of June 30, 2018:

| <b>Commitments</b> | <b>Terminated Commitments</b> | <b>Amount Funded</b> | <b>Amount Distributed</b> | <b>Reported Value</b> | <b>Call Ratio</b> | <b>Distribution Ratio</b> |
|--------------------|-------------------------------|----------------------|---------------------------|-----------------------|-------------------|---------------------------|
| \$199,730,000      | \$0                           | \$179,618,091        | \$134,258,061             | \$56,647,482          | 89.93%            | 74.75%                    |

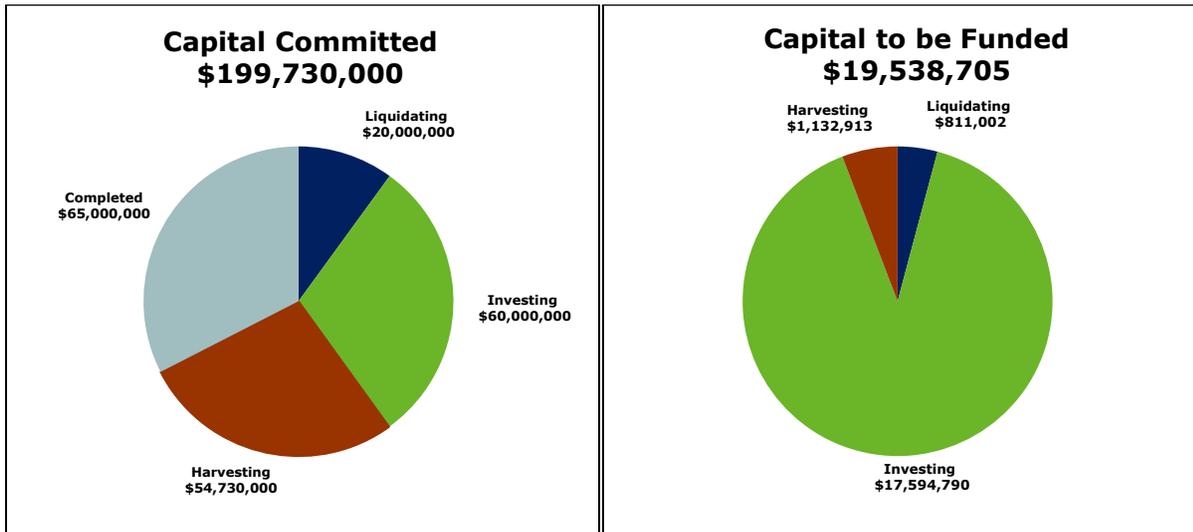
  

| <b>Unfunded Commitments</b> | <b>Market Exposure (Reported Value + Unfunded Commitments)</b> | <b>Total Fund Composite as of 6/30/2018</b> | <b>Alternative Assets Target</b> | <b>Reported Value as a % of Total Fund</b> | <b>Market Exposure as a % of Total Fund</b> |
|-----------------------------|--|---|----------------------------------|--|---|
| \$19,538,705                | \$76,186,187   | \$1,665,480,184                             | 4%*                              | 3.40%                                      | 4.6%  |

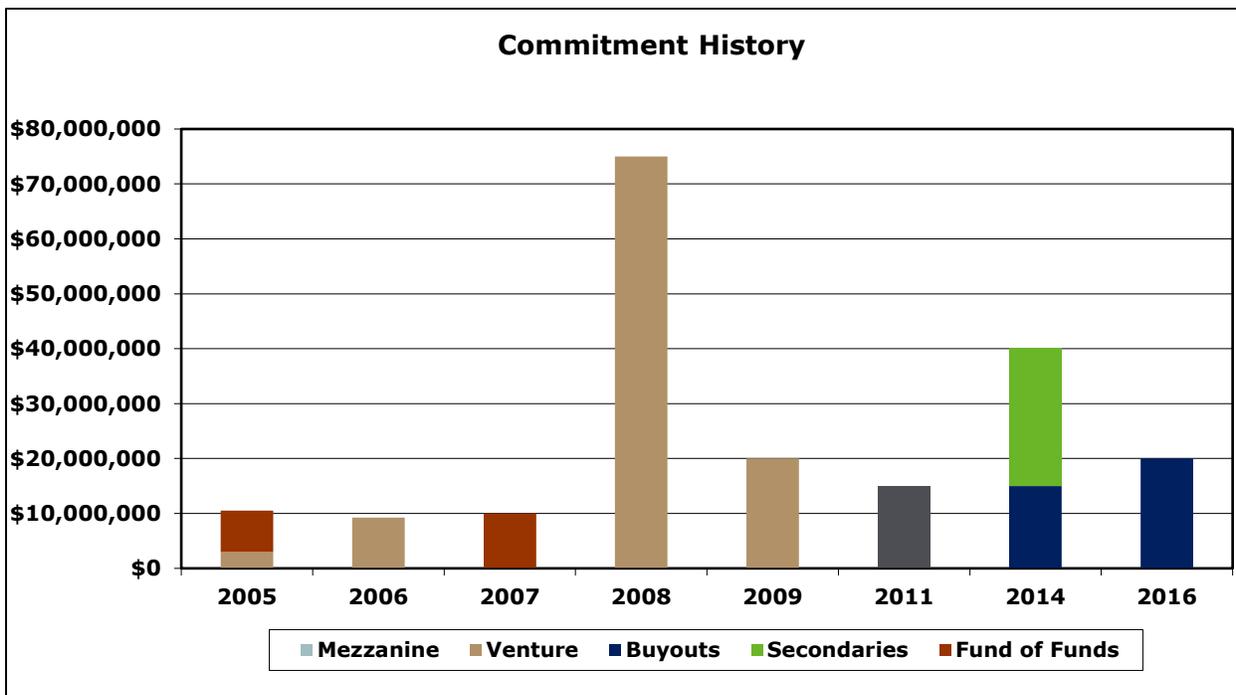
  

| <b>Total Value (Reported Value + Distributions)</b> | <b>Total Value To Paid In Capital</b> | <b>Internal Rate of Return IRR, Since Inception (January 2005)</b> |
|---|---------------------------------------|--|
| \$190,905,543                                       | 1.06                                  | 1.41%  |

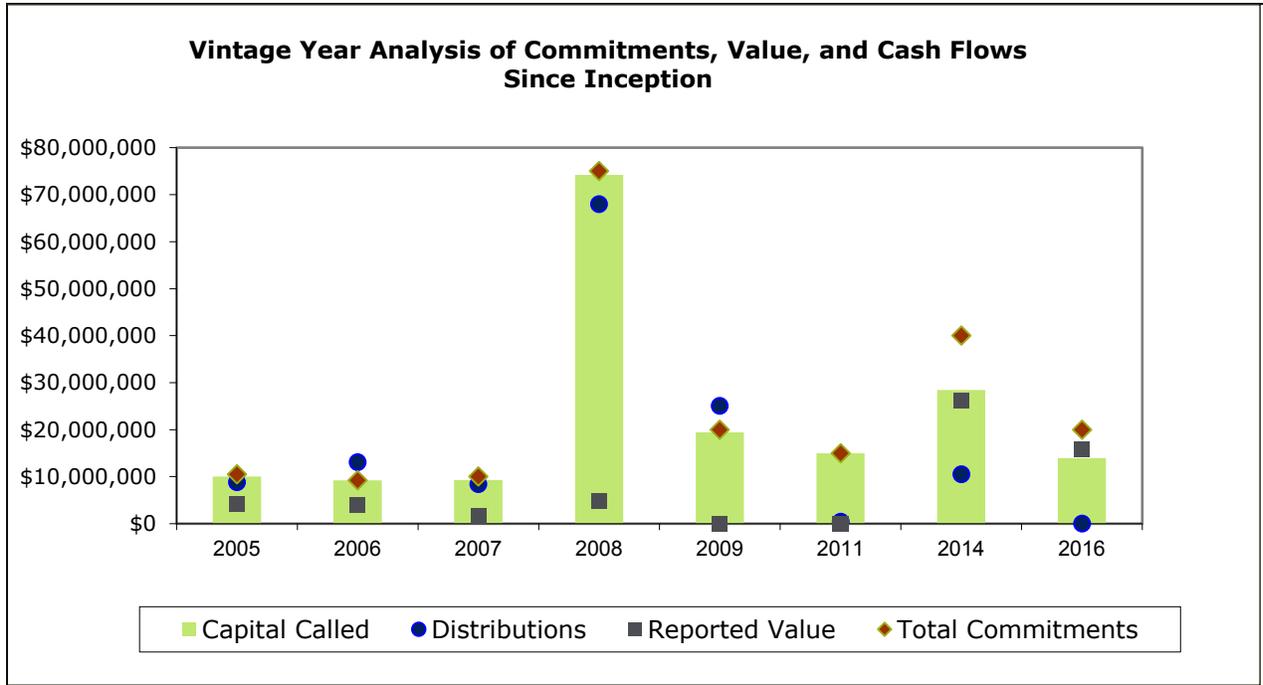
As of June 30, 2018, the Firefighters' Retirement System of Louisiana had commitments totaling \$199.73 million to 13 private markets fund. Of the 13 funds in the private equity portfolio, 3 are in the investing stage, 6 are in the harvesting stage, 1 is liquidating, and 3 have been completed. The following 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:



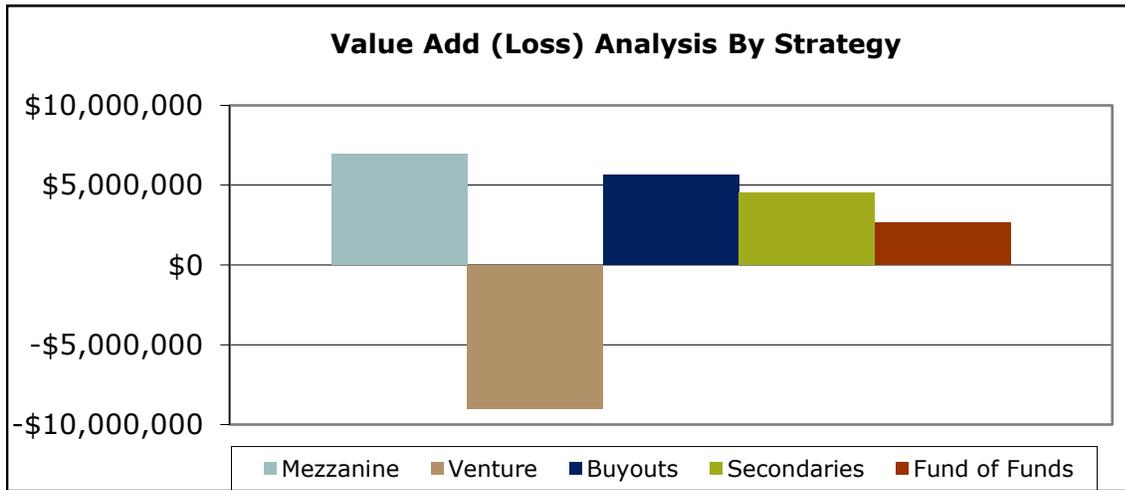
The following chart provides an analysis of the vintage year performance comparing the capital calls to the distributions and reported value:



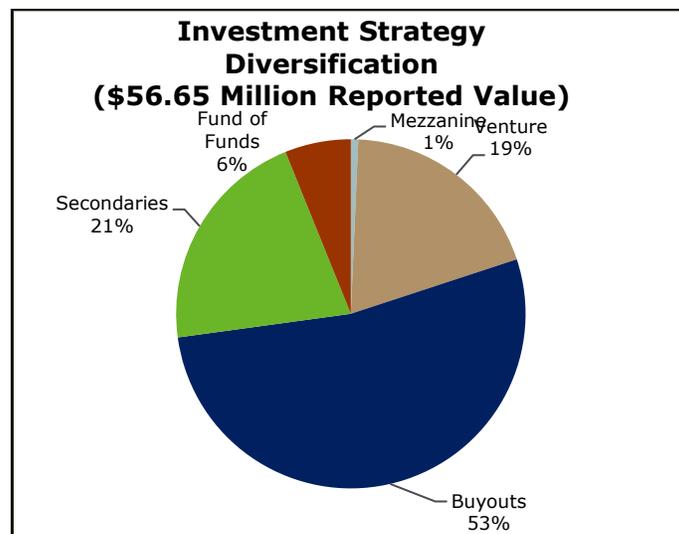
During the quarter-ended June 30, 2018 4 funds in the Firefighters’ Retirement System of Louisiana private markets portfolio drew capital and 6 funds made a distribution. The summary of the cash flow follows:

| <b>Calls &amp; Expenses Funded for the Quarter</b> | <b>Number of Funds Calling Capital &amp; Expenses</b> | <b>Distributions for the Quarter</b> | <b>Number of Funds Making Distributions</b> | <b>Net Cash/Stock Flows for the Quarter</b> |
|--|---|--------------------------------------|---|---|
| \$3,009,640  | 4   | \$1,661,162                          | 6   | (\$1,348,479)                               |

Since inception the private markets program has gained \$10.75 million in value for the Firefighters' Retirement System of Louisiana. Mezzanine added \$6.94 million, Fund of Funds added \$2.67 million, Buyouts added \$5.63 million and Secondaries added \$4.53 million. Venture has lost (\$9.03) million.



As of June 30, 2018, 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**

6/30/2018

| <b>Investment Name</b>                                     | <b>Vintage Year</b> | <b>Commitment Amount</b> | <b>QTD</b>  | <b>YTD</b>  | <b>1 Year</b> | <b>3 Year</b> | <b>5 Year</b> | <b>Inception</b> |
|--|---------------------|--------------------------|-------------|-------------|---------------|---------------|---------------|------------------|
| CCMP Capital Investors III, L.P.                           | 2014                | 15,000,000               | 7.18        | 9.12        | 6.80          | 11.73         |               | 11.34            |
| DCM Private Equity Fund II                                 | 2007                | 10,000,000               | 0.40        | -0.86       | 0.60          | -3.12         | -1.23         | 0.14             |
| DTC Private Equity II-Q, L.P.                              | 2005                | 7,500,000                | 2.23        | 4.35        | 5.40          | 4.84          | 10.27         | 5.38             |
| Franchise Capital Partners II, L.P.                        | 2008                | 20,000,000               | 1.57        | 28.72       | 156.47        | 31.12         | 4.62          | 1.78             |
| Franchise Capital Partners III, L.P.                       | 2009                | 20,000,000               |             |             |               | 8.23          | -2.10         | 7.91             |
| Greenspring Crossover Ventures, L.P.                       | 2008                | 25,000,000               | 2.34        | 3.49        | 6.12          | 12.92         | 20.78         | 11.64            |
| Greenspring Global Partners III-A, L.P.                    | 2006                | 9,230,000                | -0.08       | 2.48        | 6.64          | -2.37         | 15.96         | 11.08            |
| HarbourVest Partners Co-Investment IV                      | 2016                | 20,000,000               | 3.82        | 3.13        | 11.17         |               |               | 12.90            |
| Landmark Equity Partners XV, L.P.                          | 2014                | 25,000,000               | 4.57        | 3.97        | 22.18         | 12.60         |               | 17.64            |
| Louisiana Fund I   | 2005                | 1,000,000                | -0.16       | -4.05       | -5.09         | -6.60         | -3.80         | 6.12             |
| Murphree Venture Partners VI, LP                           | 2005                | 2,000,000                | 2.35        | -9.50       | -9.32         | -5.78         | 2.88          | -3.38            |
| Sail Sustainable Louisiana LP                              | 2011                | 15,000,000               |             |             |               |               |               |                  |
| SAIL Venture Partners II                                   | 2008                | 30,000,000               |             |             |               |               |               |                  |
| <b>Total: Firefighters' Retirement System of Louisiana</b> |                     | <b>199,730,000</b>       | <b>4.04</b> | <b>4.38</b> | <b>10.05</b>  | <b>8.17</b>   | <b>-6.48</b>  | <b>1.41</b>      |

## Firefighters' Retirement System of Louisiana

### Performance Analysis

6/30/2018

| 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         | 11,642,226         | 3,357,774            | -103,740        | 1,182,125                | 14,180,095        | 15,362,220         | 3,823,734         | 78%        | 0.10        | 1.33        | 11.34%       |
| 2 DCM Private Equity Fund II                               | 2007         | 10,000,000         | 9,317,087          | 682,913              | 714,269         | 8,382,828                | 1,727,569         | 10,110,397         | 79,041            | 93%        | 0.84        | 1.01        | 0.14%        |
| 3 DTC Private Equity II-Q, L.P.                            | 2005         | 7,500,000          | 7,050,000          | 450,000              | 0               | 7,912,500                | 1,729,658         | 9,642,158          | 2,592,158         | 94%        | 1.12        | 1.37        | 5.38%        |
| 4 Franchise Capital Partners II, L.P.                      | 2008         | 20,000,000         | 19,188,998         | 811,002              | 0               | 20,081,456               | 388,146           | 20,469,602         | 1,280,604         | 96%        | 1.05        | 1.07        | 1.78%        |
| 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               | 46,219,022               | 4,373,664         | 50,592,686         | 25,592,686        | 100%       | 1.85        | 2.02        | 11.64%       |
| 7 Greenspring Global Partners III-A, L.P.                  | 2006         | 9,230,000          | 9,230,000          | 0                    | 0               | 13,074,811               | 4,105,060         | 17,179,871         | 7,949,871         | 100%       | 1.42        | 1.86        | 11.08%       |
| 8 HarbourVest Partners Co-Investment IV                    | 2016         | 20,000,000         | 13,972,907         | 6,027,093            | 0               | 0                        | 15,779,871        | 15,779,871         | 1,806,964         | 70%        | 0.00        | 1.13        | 12.90%       |
| 9 Landmark Equity Partners XV, L.P.                        | 2014         | 25,000,000         | 16,790,077         | 8,209,923            | -74,562         | 9,316,241                | 11,931,304        | 21,247,545         | 4,532,030         | 67%        | 0.56        | 1.27        | 17.64%       |
| 10 Louisiana Fund I  | 2005         | 1,000,000          | 1,000,000          | 0                    | 0               | 25,317                   | 1,734,135         | 1,759,452          | 759,452           | 100%       | 0.03        | 1.76        | 6.12%        |
| 11 Murphree Venture Partners VI, LP                        | 2005         | 2,000,000          | 2,000,000          | 0                    | 0               | 848,459                  | 697,980           | 1,546,439          | -453,561          | 100%       | 0.42        | 0.77        | -3.38%       |
| 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          |
| <b>Total: Firefighters' Retirement System of Louisiana</b> |              | <b>199,730,000</b> | <b>179,618,091</b> | <b>19,538,705</b>    | <b>535,967</b>  | <b>134,258,061</b>       | <b>56,647,482</b> | <b>190,905,543</b> | <b>10,751,485</b> | <b>90%</b> | <b>0.75</b> | <b>1.06</b> | <b>1.41%</b> |

## Firefighters' Retirement System of Louisiana

### Lifecycle Performance Analysis

6/30/2018

| 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            |
|--|--------------|--------------------|--------------------|----------------------|-----------------|--------------------------|-------------------|--------------------|--------------------|------------|-------------|-------------|----------------|
| <b>2 Investing</b>   |              |                    |                    |                      |                 |                          |                   |                    |                    |            |             |             |                |
| 1 CCMP Capital Investors III, L.P.                         | 2014         | 15,000,000         | 11,642,226         | 3,357,774            | -103,740        | 1,182,125                | 14,180,095        | 15,362,220         | 3,823,734          | 78%        | 0.10        | 1.33        | 11.34%         |
| 2 HarbourVest Partners Co-Investment IV                    | 2016         | 20,000,000         | 13,972,907         | 6,027,093            | 0               | 0                        | 15,779,871        | 15,779,871         | 1,806,964          | 70%        | 0.00        | 1.13        | 12.90%         |
| 3 Landmark Equity Partners XV, L.P.                        | 2014         | 25,000,000         | 16,790,077         | 8,209,923            | -74,562         | 9,316,241                | 11,931,304        | 21,247,545         | 4,532,030          | 67%        | 0.56        | 1.27        | 17.64%         |
| <b>Subtotal: 2 Investing</b>                               |              | <b>60,000,000</b>  | <b>42,405,210</b>  | <b>17,594,790</b>    | <b>-178,302</b> | <b>10,498,366</b>        | <b>41,891,270</b> | <b>52,389,636</b>  | <b>10,162,728</b>  | <b>71%</b> | <b>0.25</b> | <b>1.24</b> | <b>13.87%</b>  |
| <b>3 Harvesting</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |            |             |             |                |
| 1 DCM Private Equity Fund II                               | 2007         | 10,000,000         | 9,317,087          | 682,913              | 714,269         | 8,382,828                | 1,727,569         | 10,110,397         | 79,041             | 93%        | 0.84        | 1.01        | 0.14%          |
| 2 DTC Private Equity II-Q, L.P.                            | 2005         | 7,500,000          | 7,050,000          | 450,000              | 0               | 7,912,500                | 1,729,658         | 9,642,158          | 2,592,158          | 94%        | 1.12        | 1.37        | 5.38%          |
| 3 Greenspring Crossover Ventures, L.P.                     | 2008         | 25,000,000         | 25,000,000         | 0                    | 0               | 46,219,022               | 4,373,664         | 50,592,686         | 25,592,686         | 100%       | 1.85        | 2.02        | 11.64%         |
| 4 Greenspring Global Partners III-A, L.P.                  | 2006         | 9,230,000          | 9,230,000          | 0                    | 0               | 13,074,811               | 4,105,060         | 17,179,871         | 7,949,871          | 100%       | 1.42        | 1.86        | 11.08%         |
| 5 Louisiana Fund I   | 2005         | 1,000,000          | 1,000,000          | 0                    | 0               | 25,317                   | 1,734,135         | 1,759,452          | 759,452            | 100%       | 0.03        | 1.76        | 6.12%          |
| 6 Murphree Venture Partners VI, LP                         | 2005         | 2,000,000          | 2,000,000          | 0                    | 0               | 848,459                  | 697,980           | 1,546,439          | -453,561           | 100%       | 0.42        | 0.77        | -3.38%         |
| <b>Subtotal: 3 Harvesting</b>                              |              | <b>54,730,000</b>  | <b>53,597,087</b>  | <b>1,132,913</b>     | <b>714,269</b>  | <b>76,462,936</b>        | <b>14,368,066</b> | <b>90,831,002</b>  | <b>36,519,646</b>  | <b>98%</b> | <b>1.41</b> | <b>1.67</b> | <b>8.67%</b>   |
| <b>4 Liquidating</b>                                       |              |                    |                    |                      |                 |                          |                   |                    |                    |            |             |             |                |
| 1 Franchise Capital Partners II, L.P.                      | 2008         | 20,000,000         | 19,188,998         | 811,002              | 0               | 20,081,456               | 388,146           | 20,469,602         | 1,280,604          | 96%        | 1.05        | 1.07        | 1.78%          |
| <b>Subtotal: 4 Liquidating</b>                             |              | <b>20,000,000</b>  | <b>19,188,998</b>  | <b>811,002</b>       | <b>0</b>        | <b>20,081,456</b>        | <b>388,146</b>    | <b>20,469,602</b>  | <b>1,280,604</b>   | <b>96%</b> | <b>1.05</b> | <b>1.07</b> | <b>1.78%</b>   |
| <b>5 Completed</b>   |              |                    |                    |                      |                 |                          |                   |                    |                    |            |             |             |                |
| 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            |
| <b>Subtotal: 5 Completed</b>                               |              | <b>65,000,000</b>  | <b>64,426,797</b>  | <b>0</b>             | <b>0</b>        | <b>27,215,303</b>        | <b>0</b>          | <b>27,215,303</b>  | <b>-37,211,494</b> | <b>99%</b> | <b>0.42</b> | <b>0.42</b> | <b>-22.22%</b> |
| <b>Total: Firefighters' Retirement System of Louisiana</b> |              | <b>199,730,000</b> | <b>179,618,091</b> | <b>19,538,705</b>    | <b>535,967</b>  | <b>134,258,061</b>       | <b>56,647,482</b> | <b>190,905,543</b> | <b>10,751,485</b>  | <b>90%</b> | <b>0.75</b> | <b>1.06</b> | <b>1.41%</b>   |

## Firefighters' Retirement System of Louisiana

### Vintage Year Performance Analysis

6/30/2018

| 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           |
|--|--------------|--------------------|--------------------|----------------------|-----------------|--------------------------|-------------------|--------------------|--------------------|-------------|-------------|-------------|---------------|
| <b>2005</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 DTC Private Equity II-Q, L.P.                            | 2005         | 7,500,000          | 7,050,000          | 450,000              | 0               | 7,912,500                | 1,729,658         | 9,642,158          | 2,592,158          | 94%         | 1.12        | 1.37        | 5.38%         |
| 2 Louisiana Fund I   | 2005         | 1,000,000          | 1,000,000          | 0                    | 0               | 25,317                   | 1,734,135         | 1,759,452          | 759,452            | 100%        | 0.03        | 1.76        | 6.12%         |
| 3 Murphree Venture Partners VI, LP                         | 2005         | 2,000,000          | 2,000,000          | 0                    | 0               | 848,459                  | 697,980           | 1,546,439          | -453,561           | 100%        | 0.42        | 0.77        | -3.38%        |
| <b>Subtotal: 2005</b>                                      |              | <b>10,500,000</b>  | <b>10,050,000</b>  | <b>450,000</b>       | <b>0</b>        | <b>8,786,276</b>         | <b>4,161,773</b>  | <b>12,948,049</b>  | <b>2,898,049</b>   | <b>96%</b>  | <b>0.87</b> | <b>1.29</b> | <b>3.84%</b>  |
| <b>2006</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 Greenspring Global Partners III-A, L.P.                  | 2006         | 9,230,000          | 9,230,000          | 0                    | 0               | 13,074,811               | 4,105,060         | 17,179,871         | 7,949,871          | 100%        | 1.42        | 1.86        | 11.08%        |
| <b>Subtotal: 2006</b>                                      |              | <b>9,230,000</b>   | <b>9,230,000</b>   | <b>0</b>             | <b>0</b>        | <b>13,074,811</b>        | <b>4,105,060</b>  | <b>17,179,871</b>  | <b>7,949,871</b>   | <b>100%</b> | <b>1.42</b> | <b>1.86</b> | <b>11.08%</b> |
| <b>2007</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 DCM Private Equity Fund II                               | 2007         | 10,000,000         | 9,317,087          | 682,913              | 714,269         | 8,382,828                | 1,727,569         | 10,110,397         | 79,041             | 93%         | 0.84        | 1.01        | 0.14%         |
| <b>Subtotal: 2007</b>                                      |              | <b>10,000,000</b>  | <b>9,317,087</b>   | <b>682,913</b>       | <b>714,269</b>  | <b>8,382,828</b>         | <b>1,727,569</b>  | <b>10,110,397</b>  | <b>79,041</b>      | <b>93%</b>  | <b>0.84</b> | <b>1.01</b> | <b>0.14%</b>  |
| <b>2008</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 Franchise Capital Partners II, L.P.                      | 2008         | 20,000,000         | 19,188,998         | 811,002              | 0               | 20,081,456               | 388,146           | 20,469,602         | 1,280,604          | 96%         | 1.05        | 1.07        | 1.78%         |
| 2 Greenspring Crossover Ventures, L.P.                     | 2008         | 25,000,000         | 25,000,000         | 0                    | 0               | 46,219,022               | 4,373,664         | 50,592,686         | 25,592,686         | 100%        | 1.85        | 2.02        | 11.64%        |
| 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           |
| <b>Subtotal: 2008</b>                                      |              | <b>75,000,000</b>  | <b>74,188,998</b>  | <b>811,002</b>       | <b>0</b>        | <b>67,976,736</b>        | <b>4,761,810</b>  | <b>72,738,546</b>  | <b>-1,450,452</b>  | <b>99%</b>  | <b>0.92</b> | <b>0.98</b> | <b>-0.41%</b> |
| <b>2009</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 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%         |
| <b>Subtotal: 2009</b>                                      |              | <b>20,000,000</b>  | <b>19,426,797</b>  | <b>0</b>             | <b>0</b>        | <b>25,089,905</b>        | <b>0</b>          | <b>25,089,905</b>  | <b>5,663,108</b>   | <b>97%</b>  | <b>1.29</b> | <b>1.29</b> | <b>7.91%</b>  |
| <b>2011</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 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           |
| <b>Subtotal: 2011</b>                                      |              | <b>15,000,000</b>  | <b>15,000,000</b>  | <b>0</b>             | <b>0</b>        | <b>449,140</b>           | <b>0</b>          | <b>449,140</b>     | <b>-14,550,860</b> | <b>100%</b> | <b>0.03</b> | <b>0.03</b> | <b>N/A</b>    |
| <b>2014</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 CCMP Capital Investors III, L.P.                         | 2014         | 15,000,000         | 11,642,226         | 3,357,774            | -103,740        | 1,182,125                | 14,180,095        | 15,362,220         | 3,823,734          | 78%         | 0.10        | 1.33        | 11.34%        |
| 2 Landmark Equity Partners XV, L.P.                        | 2014         | 25,000,000         | 16,790,077         | 8,209,923            | -74,562         | 9,316,241                | 11,931,304        | 21,247,545         | 4,532,030          | 67%         | 0.56        | 1.27        | 17.64%        |
| <b>Subtotal: 2014</b>                                      |              | <b>40,000,000</b>  | <b>28,432,303</b>  | <b>11,567,697</b>    | <b>-178,302</b> | <b>10,498,366</b>        | <b>26,111,399</b> | <b>36,609,765</b>  | <b>8,355,764</b>   | <b>71%</b>  | <b>0.37</b> | <b>1.30</b> | <b>14.07%</b> |
| <b>2016</b>  |              |                    |                    |                      |                 |                          |                   |                    |                    |             |             |             |               |
| 1 HarbourVest Partners Co-Investment IV                    | 2016         | 20,000,000         | 13,972,907         | 6,027,093            | 0               | 0                        | 15,779,871        | 15,779,871         | 1,806,964          | 70%         | 0.00        | 1.13        | 12.90%        |
| <b>Subtotal: 2016</b>                                      |              | <b>20,000,000</b>  | <b>13,972,907</b>  | <b>6,027,093</b>     | <b>0</b>        | <b>0</b>                 | <b>15,779,871</b> | <b>15,779,871</b>  | <b>1,806,964</b>   | <b>70%</b>  | <b>0.00</b> | <b>1.13</b> | <b>12.90%</b> |
| <b>Total: Firefighters' Retirement System of Louisiana</b> |              | <b>199,730,000</b> | <b>179,618,091</b> | <b>19,538,705</b>    | <b>535,967</b>  | <b>134,258,061</b>       | <b>56,647,482</b> | <b>190,905,543</b> | <b>10,751,485</b>  | <b>90%</b>  | <b>0.75</b> | <b>1.06</b> | <b>1.41%</b>  |

## Firefighters' Retirement System of Louisiana

### Investment Strategy Performance Analysis

6/30/2018

| 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           |
|--|--------------|--------------------|--------------------|----------------------|-----------------|--------------------------|-------------------|--------------------|-------------------|-------------|-------------|-------------|---------------|
| <b>100 Venture</b>   |              |                    |                    |                      |                 |                          |                   |                    |                   |             |             |             |               |
| 1 Greenspring Crossover Ventures, L.P.                     | 2008         | 25,000,000         | 25,000,000         | 0                    | 0               | 46,219,022               | 4,373,664         | 50,592,686         | 25,592,686        | 100%        | 1.85        | 2.02        | 11.64%        |
| 2 Greenspring Global Partners III-A, L.P.                  | 2006         | 9,230,000          | 9,230,000          | 0                    | 0               | 13,074,811               | 4,105,060         | 17,179,871         | 7,949,871         | 100%        | 1.42        | 1.86        | 11.08%        |
| 3 Louisiana Fund I   | 2005         | 1,000,000          | 1,000,000          | 0                    | 0               | 25,317                   | 1,734,135         | 1,759,452          | 759,452           | 100%        | 0.03        | 1.76        | 6.12%         |
| 4 Murphree Venture Partners VI, LP                         | 2005         | 2,000,000          | 2,000,000          | 0                    | 0               | 848,459                  | 697,980           | 1,546,439          | -453,561          | 100%        | 0.42        | 0.77        | -3.38%        |
| 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           |
| <b>Subtotal: 100 Venture</b>                               |              | <b>82,230,000</b>  | <b>82,230,000</b>  | <b>0</b>             | <b>0</b>        | <b>62,293,007</b>        | <b>10,910,839</b> | <b>73,203,846</b>  | <b>-9,026,154</b> | <b>100%</b> | <b>0.76</b> | <b>0.89</b> | <b>-2.26%</b> |
| <b>120 Buyouts</b>   |              |                    |                    |                      |                 |                          |                   |                    |                   |             |             |             |               |
| 1 CCMP Capital Investors III, L.P.                         | 2014         | 15,000,000         | 11,642,226         | 3,357,774            | -103,740        | 1,182,125                | 14,180,095        | 15,362,220         | 3,823,734         | 78%         | 0.10        | 1.33        | 11.34%        |
| 2 HarbourVest Partners Co-Investment IV                    | 2016         | 20,000,000         | 13,972,907         | 6,027,093            | 0               | 0                        | 15,779,871        | 15,779,871         | 1,806,964         | 70%         | 0.00        | 1.13        | 12.90%        |
| <b>Subtotal: 120 Buyouts</b>                               |              | <b>35,000,000</b>  | <b>25,615,133</b>  | <b>9,384,867</b>     | <b>-103,740</b> | <b>1,182,125</b>         | <b>29,959,966</b> | <b>31,142,091</b>  | <b>5,630,698</b>  | <b>73%</b>  | <b>0.05</b> | <b>1.22</b> | <b>11.77%</b> |
| <b>130 Mezzanine</b>                                       |              |                    |                    |                      |                 |                          |                   |                    |                   |             |             |             |               |
| 1 Franchise Capital Partners II, L.P.                      | 2008         | 20,000,000         | 19,188,998         | 811,002              | 0               | 20,081,456               | 388,146           | 20,469,602         | 1,280,604         | 96%         | 1.05        | 1.07        | 1.78%         |
| 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%         |
| <b>Subtotal: 130 Mezzanine</b>                             |              | <b>40,000,000</b>  | <b>38,615,795</b>  | <b>811,002</b>       | <b>0</b>        | <b>45,171,361</b>        | <b>388,146</b>    | <b>45,559,507</b>  | <b>6,943,712</b>  | <b>97%</b>  | <b>1.17</b> | <b>1.18</b> | <b>4.75%</b>  |
| <b>140 Secondaries</b>                                     |              |                    |                    |                      |                 |                          |                   |                    |                   |             |             |             |               |
| 1 Landmark Equity Partners XV, L.P.                        | 2014         | 25,000,000         | 16,790,077         | 8,209,923            | -74,562         | 9,316,241                | 11,931,304        | 21,247,545         | 4,532,030         | 67%         | 0.56        | 1.27        | 17.64%        |
| <b>Subtotal: 140 Secondaries</b>                           |              | <b>25,000,000</b>  | <b>16,790,077</b>  | <b>8,209,923</b>     | <b>-74,562</b>  | <b>9,316,241</b>         | <b>11,931,304</b> | <b>21,247,545</b>  | <b>4,532,030</b>  | <b>67%</b>  | <b>0.56</b> | <b>1.27</b> | <b>17.64%</b> |
| <b>170 Fund of Funds</b>                                   |              |                    |                    |                      |                 |                          |                   |                    |                   |             |             |             |               |
| 1 DCM Private Equity Fund II                               | 2007         | 10,000,000         | 9,317,087          | 682,913              | 714,269         | 8,382,828                | 1,727,569         | 10,110,397         | 79,041            | 93%         | 0.84        | 1.01        | 0.14%         |
| 2 DTC Private Equity II-Q, L.P.                            | 2005         | 7,500,000          | 7,050,000          | 450,000              | 0               | 7,912,500                | 1,729,658         | 9,642,158          | 2,592,158         | 94%         | 1.12        | 1.37        | 5.38%         |
| <b>Subtotal: 170 Fund of Funds</b>                         |              | <b>17,500,000</b>  | <b>16,367,087</b>  | <b>1,132,913</b>     | <b>714,269</b>  | <b>16,295,328</b>        | <b>3,457,227</b>  | <b>19,752,555</b>  | <b>2,671,199</b>  | <b>94%</b>  | <b>0.95</b> | <b>1.16</b> | <b>2.57%</b>  |
| <b>Total: Firefighters' Retirement System of Louisiana</b> |              | <b>199,730,000</b> | <b>179,618,091</b> | <b>19,538,705</b>    | <b>535,967</b>  | <b>134,258,061</b>       | <b>56,647,482</b> | <b>190,905,543</b> | <b>10,751,485</b> | <b>90%</b>  | <b>0.75</b> | <b>1.06</b> | <b>1.41%</b>  |

**Firefighters' Retirement System of Louisiana**

**Transaction Summary**

4/1/2018 - 6/30/2018

| <b>Date</b>   | <b>Paid in Capital</b> | <b>Additional Fees</b> | <b>Distributions</b> | <b>Net Cash Flow</b> |
|---|------------------------|------------------------|----------------------|----------------------|
| <b>Firefighters' Retirement System of Louisiana</b> |                        |                        |                      |                      |
| CCMP Capital Investors III, L.P.                    |                        |                        |                      |                      |
| 05/24/2018  | 239.00                 |                        |                      | 239.00               |
| 05/24/2018  |                        |                        | 168,573.00           | -168,334.00          |
| Total: CCMP Capital Investors III, L.P.             |                        |                        |                      |                      |
|   | <b>239.00</b>          |                        | <b>168,573.00</b>    | <b>-168,334.00</b>   |
| DCM Private Equity Fund II                          |                        |                        |                      |                      |
| 04/16/2018  | 4,031.98               |                        |                      | 4,031.98             |
| 04/23/2018  |                        |                        | 108,263.27           | -104,231.29          |
| 04/23/2018  | -1,130.74              |                        |                      | -105,362.03          |
| 04/23/2018  | -136,992.37            |                        |                      | -242,354.40          |
| 06/29/2018  |                        |                        | 93,837.27            | -336,191.67          |
| 06/29/2018  |                        | 3,501.19               |                      | -332,690.48          |
| Total: DCM Private Equity Fund II                   |                        |                        |                      |                      |
|   | <b>-134,091.13</b>     | <b>3,501.19</b>        | <b>202,100.54</b>    | <b>-332,690.48</b>   |
| Franchise Capital Partners II, L.P.                 |                        |                        |                      |                      |
| 05/08/2018  |                        |                        | 22,000.00            | -22,000.00           |
| Total: Franchise Capital Partners II, L.P.          |                        |                        |                      |                      |
|   |                        |                        | <b>22,000.00</b>     | <b>-22,000.00</b>    |
| Greenspring Crossover Ventures, L.P.                |                        |                        |                      |                      |
| 04/20/2018  |                        |                        | 554,810.00           | -554,810.00          |
| Total: Greenspring Crossover Ventures, L.P.         |                        |                        |                      |                      |
|   |                        |                        | <b>554,810.00</b>    | <b>-554,810.00</b>   |
| Greenspring Global Partners III-A, L.P.             |                        |                        |                      |                      |
| 05/03/2018  |                        |                        | 138,450.00           | -138,450.00          |
| 06/14/2018  |                        |                        | 119,990.00           | -258,440.00          |
| Total: Greenspring Global Partners III-A, L.P.      |                        |                        |                      |                      |
|   |                        |                        | <b>258,440.00</b>    | <b>-258,440.00</b>   |
| HarbourVest Partners Co-Investment IV               |                        |                        |                      |                      |
| 04/11/2018  | 1,950,000.00           |                        |                      | 1,950,000.00         |
| 05/14/2018  | 522,907.00             |                        |                      | 2,472,907.00         |
| Total: HarbourVest Partners Co-Investment IV        |                        |                        |                      |                      |
|   | <b>2,472,907.00</b>    |                        |                      | <b>2,472,907.00</b>  |

**Firefighters' Retirement System of Louisiana**

**Transaction Summary**

4/1/2018 - 6/30/2018

|   | <b>Date</b> | <b>Paid in Capital</b> | <b>Additional Fees</b> | <b>Distributions</b> | <b>Net Cash Flow</b> |
|---|-------------|------------------------|------------------------|----------------------|----------------------|
| <b>Firefighters' Retirement System of Louisiana</b> |             |                        |                        |                      |                      |
| Landmark Equity Partners XV, L.P.                   |             |                        |                        |                      |                      |
|   | 04/17/2018  | 153,852.00             |                        |                      | 153,852.00           |
|   | 04/30/2018  |                        |                        | 270,829.00           | -116,977.00          |
|   | 05/23/2018  | 296,994.00             |                        |                      | 180,017.00           |
|   | 06/19/2018  |                        |                        | 184,409.00           | -4,392.00            |
|   | 06/20/2018  | 216,238.00             |                        |                      | 211,846.00           |
| Total: Landmark Equity Partners XV, L.P.            |             |                        |                        |                      |                      |
|   |             | <b>667,084.00</b>      |                        | <b>455,238.00</b>    | <b>211,846.00</b>    |
| <b>Total:</b>                                       |             | <b>3,006,138.87</b>    | <b>3,501.19</b>        | <b>1,661,161.54</b>  | <b>1,348,478.52</b>  |