



Response to
Senate Resolution No.175
(2005 Regular Session)

For the Period January 1 to March 31, 2023

Pursuant to SR 175 of the 2005 Regular Louisiana Legislative Session, each retirement system is to provide a quarterly report of their investments commencing with the quarter beginning July 1, 2005. The following is the quarterly report for LASERS portfolio for the period January 1 to March 31, 2023. The report provides a listing of LASERS investments by asset class, amount of funds invested and with whom, annual returns on the investments and the management fees.

While market returns provide a snapshot view of investment performance, readers should keep in mind that actuarial returns, which are smoothed over five years to offset market volatility, are a better indicator of the system's ability to consistently achieve the assumed annual actuarial return of 7.25% effective July 1, 2022.

Therefore, in addition to the data presented in the quarterly SR 175 - Senate Resolution No. 175 Report, the following information is given to further illustrate the System's status.

As of June 30, 2022, LASERS 30-year actuarial return was 7.46%.

1st Qtr 2023

Manager	Net Asset Value \$ (Millions)	Annual Return	Management Fees	
			Annual Basis Points	Quarterly Dollar Amount
U.S. EQUITY				
INDEX FUNDS				
LASERS S&P 400 Index Fund	588.8	-5.2	n/a	-
LASERS S&P 500 Index Fund	2258.4	-7.7	n/a	-
LASERS S&P 600 Index Fund	455.9	-8.5	n/a	-
LASERS NASDAQ 100 Index Fund	667.4	-10.4	n/a	-
SMALL CAP VALUE				
LSV Asset Management	197.5	-4.4	56.5	292,218
NON-U.S. EQUITY				
LARGE CAP VALUE				
Mondrian Investment Partners	273.6	0.2	27.7	189,228
LARGE CAP CORE				
LASERS MSCI World Ex-USA Index Fund	681.6	-1.8	n/a	-
LASERS Terror-Free International Fund	35.5	-3.1	n/a	-
INT'L SMALL CAP				
Mondrian Investment Partners	230.0	-8.6	70.4	408,951
Goldman Sachs	417.2	-4.9	50.4	529,327
EMERGING MARKETS				
City of London Investment Management	352.4	-8.7	88.0	828,481
Westwood Global Emerging Markets	272.9	-7.1	89.2	604,505
LSV Custom Emerging Markets	318.6	-5.2	50.0	411,510
TOTAL EQUITY	\$6,750.0			3,264,220
US FIXED INCOME				
INVESTMENT GRADE				
Loomis Sayles & Co.	177.4	-3.8	17.8	78,720
Orleans Capital Mgt	124.5	-4.3	12.0	37,023
HIGH YIELD				
JP Morgan	1.0	-12.7	50.0	772
Nomura	122.5	-1.1	45.0	148,787
EMERGING MARKET DEBT				
Stone Harbor	2.0	-15.6	52.5	2,773
Gramercy	358.4	4.7	55.0	-
Global Multi-Sector				
Doubleline	237.1	-3.8	55.0	335,306
Goldentree	312.4	0.6	60.0	520,058
Pimco	448.9	3.4	95.0	1,067,400
Blackstone	271.1	6.4	78.1	236,318
Zais Group	118.7	-4.8	62.5	228,958
Arrowmark Partners ¹	134.8	6.8	n/a	-
TOTAL FIXED INCOME	\$2,308.8			2,656,114

1st Qtr 2023

Manager	Net Asset Value \$ (Millions)	Annual Return	Management Fees	
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ALTERNATIVE ASSETS				
PRIVATE MARKETS				
Adams Street 2005 Non-US ²	0.6	-9.1	0.0	-
Adams Street Partnership 2002 US ²	0.2	-17.7	0.0	-
Adams Street Partnership 2005 US ²	1.0	-22.2	0.0	-
Adams Street 2007 US Fund ²	5.2	-24.3	0.0	-
Adams Street 2007 Non-US ²	3.1	-16.9	0.0	-
Adams Street 2007 Direct ²	1.2	-35.6	0.0	-
Adams Street 2009 US Fund	14.7	-23.1	17.0	10,417
Adams Street 2009 Non-US Developed	6.6	-11.7	17.0	6,250
Adams Street 2009 Non-US Emerging	3.9	-17.4	17.0	2,083
Adams Street 2009 Direct	1.4	-35.5	20.0	2,500
AEA Investors Fund VI	38.2	-5.0	150.0	40,031
AEA Investors Fund VII	85.6	1.8	175.0	-
Atlas Partner Holdings II	94.2	6.7	100.0	214,369
Audax Fund VII ³	0.3	n/a	150.0	105,000
Baring Asia VII	100.9	7.1	150.0	355,314
BCP Energy Services Fund A	37.7	-11.5	200.0	275,683
BCP Fund II A	75.9	25.5	200.0	375,000
BCP Infrastructure Fund A	5.0	-32.0	150.0	281,250
Brinson ^{2,4}	1.0	-4.0	0.0	-
Brookfield Capital IV	46.8	-4.0	150.0	176,552
Brookfield Infrastructure IV -B	83.8	15.6	140.0	299,402
Brookfield Capital V	106.9	4.3	150.0	376,875
Brookfield Infrastructure V ³	0.1	n/a	125.0	210,863
Brookfield Capital VI ⁵	19.4	n/a	150.0	273,950
Adams Street V ²	0.0	-93.9	0.0	-
Apax Digital II ⁶	0.8	n/a	185.0	346,875
Apollo Inv Fund VII ²	0.7	12.7	0.0	-
Apollo Inv Fund VIII	26.2	-14.8	75.0	33,767
Apollo European Fund II	5.1	-14.6	150.0	11,033
Apollo Inv Fund IX	75.7	18.8	150.0	106,250
ArcLight Energy Ptr Fund VI	33.6	36.1	150.0	119,699
CCMP Capital III	12.7	-50.1	100.0	31,892
Cerberus VI	136.4	7.4	150.0	372,547
Coller International Partners VI	14.9	-7.4	50.0	124,315
Coller International Partners VII	36.6	-3.5	81.0	156,394
Coller International Partners VIII	70.4	3.3	150.0	375,342
Double Line Mortgage	51.9	10.4	100.0	128,477
EIG Energy Fund XIV ²	1.8	-5.6	0.0	-
EIG Energy Fund XV ²	5.2	8.4	0.0	770
EIG Energy Fund XVI	42.2	5.5	125.0	102,915
Energy Spectrum Fund VI ²	1.0	-7.4	0.0	-
GTCR Fund XI	56.5	-43.6	91.8	114,750
GTCR Fund XII	65.6	5.3	150.0	217,500
GTCR Fund XIII	37.0	16.8	150.0	281,250
KPS SS Mid Cap	15.7	17.1	125.0	22,985
KPS Special Sit. Fund V	37.4	16.8	125.0	156,250
Gamut Fund I	58.7	5.1	200.0	167,959
Glendower SOF V	35.8	19.9	115.0	287,500
Goldman Sachs PEP IX ²	10.6	-9.0	0.0	-
Goldentree Distressed Fund III	38.4	9.3	125.0	174,771
Goldentree Distressed Fund IV	17.6	32.1	100.0	43,165
HIPEP Partnership III ²	0.1	-8.1	0.0	-
Harbourvest VI - Direct ²	0.2	-51.3	0.0	-
Harbourvest VI - Partnership ²	0.4	-33.8	0.0	-
Huff Alternative Fund ²	0.1	29.4	0.0	-
Insight Venture Partner XII	40.4	-23.4	175.0	328,125
Insight Venture Partner XI	120.3	-23.6	175.0	362,558
Insight Venture Partner X	99.1	-26.8	175.0	200,068
KKR Asian Fund III	56.1	-13.9	125.0	106,031
KKR Asian Fund IV	37.8	11.6	150.0	375,000
KKR North American Fund XIII ⁷	29.5	n/a	135.0	303,750
Mesirow III	1.5	-5.3	26.2	12,083
Mesirow IV	11.1	-26.1	24.4	36,615
Mesirow V	33.0	-19.9	30.1	45,210
Newstone Mezzanine II ²	4.0	5.5	0.0	-
OHA Strategic Credit Fund II	29.0	8.3	138.0	114,462
Oaktree European Fund III	16.2	2.0	175.0	74,562

1st Qtr 2023

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ALTERNATIVE ASSETS				
Pantheon Europe VI	8.7	-31.3	39.9	37,075
Pantheon VI ²	0.5	-10.6	0.0	-
Pantheon VII ²	7.1	-5.3	0.0	-
Stepstone Europe Fund II	10.1	13.4	50.0	12,697
Private Advisors IV	10.6	6.0	39.9	34,877
Private Advisors V	21.2	-17.0	53.2	53,150
Private Advisors VI	28.4	10.2	65.6	65,610
Q-BLK II ²	1.5	-17.8	0.0	-
Q-BLK III ²	11.1	-21.0	0.0	-
Siguler Guff Fund IV	8.9	2.8	18.6	18,610
Siguler Guff Pelican Gem	117.6	-5.3	75.0	169,762
Siguler Guff Pelican Emg Mkt Opp II	64.5	1.4	75.0	75,448
Sterling Partners	9.7	-39.9	200.0	41,167
Vista Equity Partners IV	24.2	-13.0	150.0	54,024
Vista Equity Partners V	93.7	-6.3	150.0	151,745
Vista Equity Partners VI	140.9	-8.0	150.0	280,347
Vista Equity Partners VII	130.2	-8.4	150.0	468,750
Vista Equity Partners VIII ³	13.0	0.0	150.0	-
Warburg Pincus	116.6	2.2	140.0	350,000
Warburg Pincus XIV	19.5	0.7	140.0	350,000
Williams Capital ²	0.2	-42.5	0.0	-
ABSOLUTE RETURN STRATEGIES				
Prisma Capital Partners	294.5	-1.6	65.0	478,115
Entrust Capital Partners	327.1	-5.8	111.9	758,895
TOTAL ALTERNATIVE ASSETS ⁸	\$3,560.8			11,740,681
TOTAL PLAN ⁹	\$12,769.1			17,661,015

¹ The fund has performance based fee structure.

² The fund no longer charges fees.

³ The fund was funded 03/2023.

⁴ This is a composite of six limited partnerships.

⁵ The fund was funded 10/2022.

⁶ The fund was funded 11/2022.

⁷ The fund was funded 5/2022.

⁸ The net asset values and returns are reflected net of fees for all Alternatives, and includes \$0.1 million for Paamco and \$0.1 million for Stark, which are being liquidated.

⁹ The Total Plan Market Value includes \$149.5 million in cash/cash equivalents.

The Total Quarterly Dollar Amount does not include \$362,371 for Self-Directed Plan and Optional Retirement Plan.

The Total Quarterly Dollar Amount does not include \$250,192 related to fees for liquidating funds, prior period adjustments, and initial fees for new funds.

Annual Basis Points for fees vary and may be based on historical cost, net asset value, invested capital or other similar items.

Comments

For the majority of LASERS investment managers, management fees are paid quarterly in arrears, based upon the market value of assets under its management, excluding any cash balance, as reported by LASERS custodian bank, and are calculated as follows:

The fee is calculated at the end of each calendar quarter as follows: (Average of market value of assets under management on last business day of each of the four preceding calendar months, which shall not include funds that are managed by LASERS custodian bank) times the annual percentage fee schedule (basis points) divided by four. Fees on invested contributions and withdrawals during each calendar quarter will be computed separately on a pro-rata basis. It is not necessary to pro-rate contributions and withdrawals for Month 1 of the calculation period. Contributions and withdrawals are to be calculated as such:

Contributions: (month end market value for the month in which the contribution was made less any cash balance) minus the amount of the contribution, and then multiplied by the number of days the funds were not in the account, divided by the total number of days for the month.

Withdrawals: (month end market value for the month in which the withdrawal was made less any cash balance) plus the amount of the withdrawal, and then multiplied by the number of days the funds were in the account, divided by the total number of days for the month.

The managers shall provide a monthly reconciliation of their records to LASERS custodian bank. Should the manager fail to reconcile LASERS portfolio on a timely basis, LASERS maintains the right to withhold payment of the management fee until the portfolio has been reconciled to LASERS satisfaction.

Private Equity earns fees as a percentage of LASERS capital commitment to each fund. The fees are deducted from the portfolios on a quarterly basis and verified with the receipt of each manager's annual audited financials.

Investment Terminology

Annual Return	Annualized returns express the rate of return over a given time period on an annual basis, or as a return per year. An annualized return can be calculated over any period one year or longer and is useful for comparing two or more portfolios over similar time periods.
Basis Point	One gradation on a 100-point scale which is used in expressing variations on the yield of bonds. A basis point is equal to one-hundredth of a percentage point.
Concentrated Portfolio	A portfolio that generally has fewer securities than traditional portfolios.
Index Fund	A fund (or account) comprised of securities, the characteristics of which will produce a return which will replicate (or substantially replicate) a designated securities index.
Management Fee	The fee charged by the investment manager for supervision of an investment. Generally quoted in terms of a percent of assets.
Market Value	The current or prevailing price of a security or commodity as indicated by current market quotations, and therefore the price at which additional amounts can presumably be purchased or sold.
Universe	The list of all assets eligible for inclusion in a portfolio.

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