

Schedule of Pension Amounts

June 30, 2016

(With Independent Auditors' Report Thereon)

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KPMG LLP New Jersey Headquarters 51 John F. Kennedy Parkway Short Hills, NJ 07078-2702

Independent Auditors' Report

The Treasurer State of New Jersey:

We have audited the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (specified column totals) included in the accompanying schedule of pension amounts of the State of New Jersey State Police Retirement System as of and for the year ended June 30, 2016 and the related notes.

Management's Responsibility for the Schedule

Management is responsible for the preparation and fair presentation of this schedule in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedule that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the specified column totals included in this schedule of pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the specified column totals included in the schedule of pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the specified column totals included in the schedule of pension amounts. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the specified column totals included in the schedule of pension amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the specified column totals included in the schedule of pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the specified column totals included in the schedule presentation of the specified column totals included in the schedule presentation of the specified column totals included in the schedule of pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the specified column totals included in the schedule of pension amounts.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the schedule referred to above presents fairly, in all material respects, the net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the State of New Jersey State Police Retirement System as of and for the year ended June 30, 2016 in accordance with U.S. generally accepted accounting principles.



Other Matters

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the State of New Jersey, Division of Pensions and Benefits, which includes the State Police Retirement System, as of and for the year ended June 30, 2016, and our report thereon, dated March 14, 2017 expressed an unmodified opinion on those financial statements.

Restriction on Use

Our report is intended solely for the information and use of the State of New Jersey, Division of Pensions and Benefits management, the Treasurer of the State of New Jersey, the State of New Jersey and their auditors, and is not intended to be and should not be used by anyone other than these specified parties.



Short Hills, New Jersey July 13, 2017

STATE OF NEW JERSEY DIVISION OF PENSIONS AND BENEFITS STATE POLICE RETIREMENT SYSTEM

Schedule of Pension Amounts

As of and for the year ended June 30, 2016

		Deferred outflows of resources				rred inflows of resou	irces	
			Net difference					
			between					
Net pension liability	Differences between expected and actual experience	Changes of assumptions	projected and actual investment earnings on pension plan investments	Total deferred outflows of resources	Differences between expected and actual experience	Changes of assumptions	Total deferred inflows of resources	Total pension expense
\$ 3,978,744,209	22,044,965	927,823,738	108,784,291	1,058,652,994	14,496,107	_	14,496,107	422,405,366

See accompanying notes to schedule of pension amounts.

Notes to Schedule of Pension Amounts June 30, 2016

(1) Plan Description

The State of New Jersey State Police Retirement System (SPRS) is a single-employer defined benefit pension plan administered by the State of New Jersey, Division of Pensions and Benefits (the Division). For additional information about SPRS, please refer to the Division's Comprehensive Annual Financial Report (CAFR), which can be found at www.state.nj.us/treasury/pensions/annrpts.shtml.

The vesting and benefit provisions are set by N.J.S.A. 53:5A. SPRS provides retirement benefits as well as death and disability benefits. All benefits vest after ten years of service, as defined, and members are always fully vested in their contributions. Mandatory retirement is at age 55. Voluntary retirement is prior to age 55 with 20 years of credited service. Benefits are an annual retirement allowance equal to the greater of (a), (b), or (C) as follows: (a) 50% of final compensation; (b) for members retiring with 25 or more years of service, 65% of final compensation plus 1% for each year of service in excess of 25 years to a maximum of 70% of final compensation; and (c) for members enrolled as of August 29, 1985, who have between 20 and 25 years of service at age 55, benefits are as defined in (a) above plus 3% for each year of service over 20 years up to a maximum of 25 years. For members enrolled as of August 29, 1985 who do not have 20 years of service by age 55, benefits are as defined in (a) above.

(2) Basis of Presentation

The schedule of pension amounts (the Schedule) presents amounts that are considered elements of the financial statements of SPRS and the State of New Jersey as the employer. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of SPRS or the State of New Jersey. The accompanying Schedule was prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of SPRS to make a number of estimates and assumptions relating to the reported amounts. Due to the inherent nature of these estimates, actual results could differ from those estimates.

(3) Contributions

The contribution policy for SPRS is set by N.J.S.A. 53:5A and requires contributions by active members and the State of New Jersey. State legislation has modified the amount that is contributed by the State. The State's contribution amount is based on an actuarially determined amount which includes the normal cost and unfunded accrued liability. For fiscal year 2016, the State's pension contribution was less than the actuarial determined amount.

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Notes to Schedule of Pension Amounts

June 30, 2016

(4) Net Pension Liability and Actuarial Information Components of Net Pension Liability

The components of the net pension liability of the State for SPRS as of June 30, 2016 are as follows:

Total pension liability Plan fiduciary net position	\$ 5,673,706,321 1,694,962,112
Net pension liability	\$ 3,978,744,209
Plan fiduciary net position as a percentage of the total pension liability	29.87%

The total pension liability for the June 30, 2016 measurement date was determined by an actuarial valuation as of July 1, 2015, which was rolled forwarded to June 30, 2016. This actuarial valuation used the following actuarial assumptions, applied to all periods in the measurement:

Inflation rate	3.08%
Salary increases:	
Through 2025	2.95%
Thereafter	3.95%
Investment rate of return	7.65%

Pre-retirement and Post-retirement mortality rates were based on the RP-2000 Combined Healthy Male (set back three years) and RP-2000 Combined Healthy Female Mortality Tables projected on a generational basis from the base year of 2000 to 2013 using Projection Scale BB. These rates were further projected using the plan actuary's modified MP-2014 Projection Scale. Disability mortality rates were based on the RP-2000 Combined Healthy Male (set forward five years) and RP-2000 Combined Health Female (set forward five years) Mortality Tables.

The actuarial assumptions used in the July 1, 2015 valuation were based on the results of an actuarial experience study for the period July 1, 2011 to July 1, 2014.

Notes to Schedule of Pension Amounts

June 30, 2016

Long-Term Expected Rate of Return

In accordance with State statute, the long-term expected rate of return on plan investments (7.65% at June 30, 2016) is determined by the State Treasurer, after consultation with the Directors of the Division of Investment and Division of Pensions and Benefits, the board of trustees and the actuaries. The long-term expected rate of return was determined using a building block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in SPRS's target asset allocation as of June 30, 2016 are summarized in the following table:

I ong-Term

Asset Class	Target Allocation	Expected Real Rate of Return
Cash	5.00%	0.87%
U.S. Treasuries	1.50%	1.74%
Investment grade credit	8.00%	1.79%
Mortgages	2.00%	1.67%
High yield bonds	2.00%	4.56%
Inflation-indexed bonds	1.50%	3.44%
Broad U.S. equities	26.00%	8.53%
Developed foreign equities	13.25%	6.83%
Emerging market equities	6.50%	9.95%
Private equity	9.00%	12.40%
Hedge funds/Absolute return	12.50%	4.68%
Real estate (property)	2.00%	6.91%
Commodities	0.50%	5.45%
Global debt ex U.S.	5.00%	-0.25%
REIT	5.25%	5.63%

Discount Rate

The discount rate used to measure the total pension liability was 3.55% as of June 30, 2016. This single blended discount rate was based on the long-term expected rate of return on pension plan investments of 7.65% and a municipal bond rate of 2.85% as of June 30, 2016 based on the Bond Buyer Go 20-Bond Municipal Bond Index, which includes tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made based on the contribution rate in the most recent fiscal year. The

Notes to Schedule of Pension Amounts

June 30, 2016

State contributed 30% of the actuarially determined contributions. Based on those assumptions, the plan's fiduciary net position was projected to be available to make projected future benefit payments of current plan members through 2033. Therefore, the long-term expected rate of return on plan investments was applied to projected benefit payments through 2033 and the municipal bond rate was applied to projected benefit payments after that date in determining the total pension liability.

Sensitivity of Net Pension Liability

The following presents the net pension liability of SPRS as of June 30, 2016, calculated using the discount rate as disclosed above as well as what SPRS's net pension liability would be if it was calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

At 1%		At current	At 1%
_	decrease (2.55%)	discount rate (3.55%)	increase (4.55%)
\$	4,948,165,769	3,978,744,209	3,213,322,784

STATE OF NEW JERSEY

STATE POLICE RETIREMENT SYSTEM

Notes to Schedule of Pension Amounts

June 30, 2016

(5) Deferred Outflows of Resources and Deferred Inflows of Resources

The following presents a summary of changes in the deferred outflows of resources and deferred inflows of resources for the year ended June 30, 2016:

	Year of deferral	Amortization period	n	Beginning of year balance	Additions	Deductions	End of year balance
Deferred Outflows of Resources: Difference between expected							
and actual experience	2015	5.34 years		28,645,254	—	6,600,289	22,044,965
Change of assumptions	2014 2015 2016	5.14 years 5.34 years 5.70 years	\$	56,621,958 354,101,001	 747,941,075	18,032,471 81,590,093 131,217,732	38,589,487 272,510,908 616,723,343
	2010	5.70 years			747,941,075	131,217,732	010,723,343
Subtotal				410,722,959	747,941,075	230,840,296	927,823,738
Difference betw een projected							
and actual earnings on	2014	5 years		(91,528,247)	—	(30,509,415)	(61,018,832)
pension plan investments	2015 2016	5 years 5 years		56,339,203 —	159,435,901	14,084,801 31,887,180	42,254,402 127,548,721
Subtotal				(35,189,044)	159,435,901	15,462,566	108,784,291
Total			\$	404,179,169	907,376,976	252,903,151	1,058,652,994
Deferred Inflows of Resources: Difference between expected							
and actual experience	2016	5.70 years	\$		17,580,385	3,084,278	14,496,107
Total			\$		17,580,385	3,084,278	14,496,107

STATE OF NEW JERSEY

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Notes to Schedule of Pension Amounts

June 30, 2016

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ending June 30:		
2017	\$	249,818,872
2018		249,818,872
2019		264,820,361
2020		190,005,362
2021	<u> </u>	89,693,420
Total	\$	1,044,156,887

Pension Expense

The components of total pension expense for the year ending June 30, 2016 are as follows:

Service cost Interest on total pension liability Member contributions Administrative expense Expected investment return net of investment expenses	\$	113,546,510 221,675,495 (22,818,295) 334,630 (140,151,847)
Current period recognition (amortization) of deferred inflows/outflows of resource Differences between expected and actual experience Changes of assumptions Difference between projected and actual investment earnings on pension plan investments Total pension expense	es: \$	3,516,011 230,840,296 15,462,566 422,405,366