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April 10, 2018

Board of Trustees
The State Police Retirement System
of New Jersey
Trenton, New Jersey 08625
Members of the Board:
The law governing the operation of the State Police Retirement System of New Jersey provides for annual actuarial valuations of the System. The results of the July 1, 2017 valuation are submitted in this report, which also includes a comparison with the results of the July 1, 2016 valuation.

This valuation reports the revised results on the Plan's July 1, 2017 actuarial valuation, which was issued December 1, 2017, to recognize the effect of the change in the investment rate of return assumption. The Treasurer has recommended a change in the investment rate of return assumption from 7.00\% per annum, compounded annually to $7.50 \%$ per annum, compounded annually.

The valuation provides information concerning the financial condition of the Plan as of July 1, 2017, and sets forth the basis for determining the recommended annual contribution for the plan year beginning July 1, 2018.

This valuation reflects Chapter 26, P.L. 2016. This law amends the definition of "child" to include a child 18 years of age or older and enrolled in a secondary school, or under the age of 24 and enrolled in a degree program in an institution of higher education for at least 12 credit hours in each semester, provided that the member died in the line of duty while in active service. This law also increases the accidental death benefit payable to children if there is no surviving spouse to $70 \%$ of final compensation.

This valuation also reflects Chapter 83, P.L. 2016 which requires the State to make pension contributions on a quarterly basis: at least 25 percent by September 30, at least 50 percent by December 31, at least 75 percent by March 31, and at least 100 percent by June 30.

The valuation reflects the actual fiscal year 2017 State pension contribution of $\$ 51,038,000$. In addition, the valuation also reflects the anticipated fiscal year 2018 State pension contribution of $\$ 72,104,412$ paid in quarterly installments of $\$ 18,026,103$. This amount may be subject to change per the requirements of the State's fiscal year 2018 spending plan.

As required under Section 32 of Chapter 89, P.L. 1965, experience studies are performed once in every three year period. The valuation was prepared using demographic assumptions recommended on the basis of the July 1, 2011 - June 30, 2014 Experience Study and approved by the Board of Trustees at the January 26, 2016 Board meeting. The Treasurer has recommended a change in the economic assumptions to be used effective with the July 1, 2017 valuation. The rate of investment return has been revised from $7.65 \%$ per annum as of July 1,2016 to $7.50 \%$ per annum as of July 1, 2017. We believe that this rate is consistent with the State's long-term capital market assumption. These assumptions will remain in effect for valuation purposes until such time the Board or Treasurer recommends revised assumptions.

The June 30, 2017 reporting requirements of the Governmental Accounting Standards Board Statements No. 67 and No. 68 are addressed in separate reports.

The State of New Jersey's Division of Pensions and Benefits reported the individual data for members of the State Police Retirement System of New Jersey as of the valuation date for use in the preparation of this report. While we did not verify the data at their source, we did perform tests for internal consistency and reasonableness. The amount of assets in the trust fund taken into account in the valuation was based on

## CONDUENT

statements provided to us by the Division of Pensions and Benefits. The accuracy of the results presented in this report is dependent on the accuracy of the data.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Any Statements regarding funded ratios have no specific relevance to any funded position that might be determined in the event a settlement is contemplated. An analysis of the potential range of future results is beyond the scope of this valuation.

Use of this report for any other purpose or by anyone other than the Board or the staff of the Division of Pensions and Benefits may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the report for that purpose. Conduent HR Consulting should be asked to review any statement to be made on the basis of the results contained in this report. Conduent HR Consulting will accept no liability for any such statement made without prior review by Conduent HR Consulting.

In my opinion, the actuarial assumptions used are appropriate for purposes of the valuation and are reasonably related to the experience of the System and to reasonable long-term expectations. These assumptions were selected in accordance with applicable Actuarial Standards of Practice published by the Actuarial Standards Board.

I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries. I meet the Qualification Standards of the Academy to render the actuarial opinions contained herein. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and I am available to answer questions concerning it.

The Table of Contents, which follows, highlights the Sections of the Report.
Respectfully submitted,


Aaron Shapiro, FSA, EA, MAAA
Principal, Consulting Actuary
Conduent HR Consulting, LLC

## Table of Contents

## Section I

Summary of Key Results ..... 1Section II
Employee Data ..... 4
Section III
Assets, Liabilities and Contributions ..... 7
A. Market Value of Assets as of June 30, 2017
B. Reconciliation of Market Value of Assets fromJune 30, 2016 to June 30, 2017
C. Development of Actuarial Value of Assets as of July 1, 2017
D. Accrued Liabilities as of July 1, 2017
E. Development of Normal Cost as of July 1, 2017
F. Summary of Active Member Accrued Actuarial Liability and Normal Cost payable July 1, 2017
G. Development of Recommended State Pension Contributions
H. Non-Contributory Group Insurance Premium

## Section IV

Comments Concerning the Valuation ..... 12
Section V
Level of Funding ..... 15
Appendix ABrief Summary of the Benefit and ContributionProvisions as Interpreted for Valuation Purposes16
Appendix B
Outline of Actuarial Assumptions and Methods ..... 19

## Table of Contents (continued)

## Appendix C

Tabulations Uses as a Basis for the 2017 Valuation ............................................ 23
Table 1 - Reconciliation of Data from July 1, 2016 to June 30, 2017
Table 2 - Distribution of Active Members by Age and Service
Table 3 - Active Members Distributed By Age
Table 4 - Active Members Distributed By Service
Table 5 - Average Age and Annual Benefit at Retirement
Table 6 - Service Retirements
Table 7 - Beneficiaries of Deceased Pensioners
Table 8 - Beneficiaries of Deceased Active Employees
Table 9 - Ordinary Disability Retirements
Table 10 - Accidental Disability Retirements

## Section I - Summary of Key Results

The State Police Retirement System of New Jersey became effective July 1, 1965 under terms of Chapter 89 of the Laws of 1965. This report, prepared as of July 1, 2017, presents the results of the annual actuarial valuation of the Fund.

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized on the following pages.

| Valuation Date |  | July 1, 2017 |  | July 1, 2016 |
| :---: | :---: | :---: | :---: | :---: |
| Number of Members |  | 2,812 |  | 2,725 |
| Annual Compensation | \$ | 289,022,222 | \$ | 277,771,135 |
| Number of Pensioners and Beneficiaries |  | 3,588 |  | 3,566 |
| Total Annual Allowance | \$ | 215,773,680 | \$ | 213,292,784 |
| Assets |  |  |  |  |
| Market Value of Assets | \$ | 1,830,429,239 ${ }^{1}$ | \$ | 1,744,462,405 |
| Valuation Assets | \$ | 1,923,127,122 ${ }^{1}$ | \$ | 1,931,131,875 |
| Contribution Rates |  |  |  |  |
| Pension Contribution |  |  |  |  |
| Recommended Contribution |  |  |  |  |
| Normal Contribution |  | 13.38 \% |  | 12.38 \% |
| Accrued Liability Contribution |  | 41.69 |  | 39.53 |
| Total Pension Contribution |  | 55.07 \% |  | 51.92 \% |
| Non-Contributory Group Insurance Premium |  | 0.68 \% |  | 0.61 \% |
| Contribution Rates |  |  |  |  |
| Recommended Contribution |  |  |  |  |
| Normal Contribution | \$ | 38,679,357 | \$ | 34,392,980 |
| Accrued Liability Contribution |  | 120,483,372 |  | 109,815,843 |
| Total Pension Contribution | \$ | 159,162,729 | \$ | 144,208,823 |
| Non-Contributory Group Insurance Premium | \$ | 1,972,000 | \$ | 1,700,000 |

1 The fiscal year 2018 recommended pension contribution of $\$ 144,208,823$ has been reduced to $\$ 68,931,904$. This amount reflects the State's planned fiscal year 2018 contribution of $\$ 72,104,412,50 \%$ of the recommended employer contribution discounted to the valuation date. This amount is included as a receivable contribution but may be subject to change per the requirements of the State's fiscal year 2018 spending plan.

This valuation reports the revised results on the Plan's July 1, 2017 actuarial valuation, which was issued December 1, 2017, to recognize the effect of the change in the investment rate of return assumption. The Treasurer has recommended a change in the investment rate of return assumption from $7.00 \%$ per annum, compounded annually to $7.50 \%$ per annum.

The major benefit and contribution provisions of the statute as reflected in the valuation are summarized in Appendix A. This valuation reflects the following:

- The Appropriation Act of fiscal year 2017 which reduced the recommended State Pension contribution of $\$ 133,217,662$ to $\$ 51,038,000$. This amount excludes the premium paid to the Non-Contributory Group Insurance Fund of $\$ 1,968,614$ for the lump sum death benefits.
- The potential impact of the Appropriations Act of fiscal year 2018 which allows the State Treasurer to reduce the recommended State normal cost and accrued liability contribution for fiscal year 2018 from $\$ 144,208,823$ to $\$ 72,104,412$ ( $50 \%$ of the recommended employer contribution). This amount excludes the estimated premium paid to the Non-Contributory Group Insurance Fund of \$1,700,000 for lump sum death benefits.
- This valuation reflects Chapter 26, P.L. 2016. This law amends the definition of "child" to include a child 18 years of age or older and enrolled in a secondary school, or under the age of 24 and enrolled in a degree program in an institution of higher education for at least 12 credit hours in each semester, provided that the member died in the line of duty while in active service. This law also increases the accidental death benefit payable to children if there is no surviving spouse to $70 \%$ of final compensation.
- Chapter 83, P.L. 2016 requires the State to make pension contributions on a quarterly basis: at least 25 percent by September 30, at least 50 percent by December 31, at least 75 percent by March 31, and at least 100 percent by June 30. Therefore, assuming the anticipated fiscal year 2018 State pension contribution of $\$ 72,104,412$ is paid in equal quarterly amounts, a discounted receivable contribution of $\$ 68,931,904$ is recognized for purposes of this valuation.

There were no other changes to the benefit and contribution provisions.

As required under Section 32 of Chapter 89, P.L. 1965, experience studies are performed once in every three year period. The valuation was prepared using demographic assumptions recommended on the basis of the July 1, 2011 - June 30, 2014 Experience Study and approved by the Board of Trustees at the January 26, 2016 Board meeting. The Treasurer has recommended a change in the economic assumptions to be used effective with the July 1, 2017 valuation. The rate of investment return has been revised from $7.65 \%$ per annum as of July 1, 2016 to $7.50 \%$ per annum as of July 1, 2017. As a result of the revised economic assumptions, the accrued liability increased by $\$ 55,934,385$ and the gross normal cost increased by $\$ 1,692,708$. The net employer contribution increased by $\$ 4,804,635$. These assumptions will remain in effect for valuation purposes until such time the Board or Treasurer recommends revised assumptions.

The valuation reflects future increases in the compensation limits imposed on certain member tiers. For Tier 1 members the compensation limit for 2017 is $\$ 270,000$ and is assumed to increase by $3 \%$ annually. The compensation limit for Tier 2 members for 2017 is $\$ 127,200$ and is assumed to increase by $4 \%$ annually.

There were no other changes to the actuarial assumptions and methods from those used in the prior valuation. The actuarial assumptions and methods used in this valuation are summarized in Appendix B.

The combination of the plan provisions, actuarial assumptions and member and beneficiary data is used to generate the overall required level of employer contributions. The required contribution is developed in Section III G. These contributions are composed of two separate portions, an "accrued liability contribution" and a "normal contribution".

The valuation also generates a balance sheet which summarizes in some detail the total present and prospective assets and liabilities of the Fund. A summary comparison of the balance sheets as of July 1, 2016 and July 1, 2017 is set forth in the following table.

## Table I

Comparative Balance Sheet

|  |  | 2017 |  | 2016 |
| :---: | :---: | :---: | :---: | :---: |
| Assets |  |  |  |  |
| Actuarial value of assets of Fund | \$ | 1,923,127,122 | \$ | 1,931,131,875 |
| Unfunded accrued liability/(surplus) |  | 1,422,955,152 |  | 1,278,254,158 |
| Total Assets |  | 3,346,082,274 | \$ | 3,209,386,033 |
| Accrued Liabilities |  |  |  |  |
| Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund | \$ | 2,445,366,686 | \$ | 2,401,980,284 |
| Present value of benefits to present active members |  | 900,715,588 |  | 807,405,749 |
| Total Accrued Liabilities | \$ | 3,346,082,274 | \$ | 3,209,386,033 |

## Section II - Employee Data

The data employed for the valuation was furnished to the actuary by the Division of Pensions and Benefits. The following summarizes and compares the Fund membership as of July 1, 2016 and July 1, 2017 by various categores

## Active Membership

| Group | 2017 |  | 2016 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Compensation | Number | Annual Compensation ${ }^{1}$ |
| Men | 2,677 | \$ 275,428,012 | 2,591 | \$ 264,557,446 |
| Women | 135 | \$ 13,594,210 | 134 | \$ 13,213,689 |
| Average Compensation |  | \$ 102,782 |  | \$ 101,934 |

${ }^{1}$ There were no members hired on or after May 22, 2010 whose pay exceeded the Social Security Wage base.

## Retired Members and Beneficiaries

| Group | 2017 |  | 2016 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowances | Number | Annual Allowances |
| Service Retirements | 2,889 | \$ 187,291,821 | 2,875 | \$ 185,519,766 |
| Ordinary Disability Retirements | 137 | \$ 4,877,728 | 136 | \$ 4,777,404 |
| Accidental Disability Retirements | 154 | \$ 8,558,614 | 151 | \$ 8,296,419 |
| Beneficiaries of Deceased Pensioners | 351 | \$ 12,450,469 | 349 | \$ 12,230,441 |
| Beneficiaries of Deceased Active Employees | 57 | \$ 2,595,048 | 55 | \$ 2,468,754 |

Appendix C provides a detailed distribution between groups
Graphic presentations of the statistical data on membership for the five preceding years are shown on the following pages.

# The State Police Retirement System Of New Jersey 

## Summary of Active Participants




## The State Police Retirement System of New Jersey

## Summary of Retired Participants



## Section III - Assets, Liabilities and Contributions

A. Market Value of Assets as of June 30, 2017

## 1. Assets

| a. | Cash | $\$$ | $18,969,605$ |
| :--- | :--- | ---: | ---: |
| b. | Securities Lending Collateral | $22,234,804$ |  |
| c. | Accounts Receivable | 273,507 |  |
| d. | Investment Holdings |  | $1,742,513,412$ |
| e. | Accrued Interest on Investments | 2,024 |  |
| f. | Employer Contribution Receivable - NCGI | 80,304 |  |
| g. | Members' Contributions Receivable | $1,094,446$ |  |
| h. | Dividends Receivable | 0 |  |
| i. | Loans Receivable |  | $14,809,672$ |
| j. | Interest Receivable - Member Loans | 670,282 |  |
| k. | Total |  | $1,800,648,056$ |

2. Liabilities

| a. Pension Payroll Payable | $\$$ | $13,302,063$ |  |
| :--- | :--- | ---: | ---: |
| b. | Securities Lending Collateral and Rebates Payable |  | $22,228,240$ |
| c. | Pension Adjustment Payroll Payable |  | $1,763,135$ |
| d. | Withholdings Payable | $2,657,371$ |  |
| e. Securities Purchased in Transit |  | 0 |  |
| f. | Accounts Payable - Other |  | $(880,392)$ |
| g. Death Benefits Payable | $\$$ | 80,304 |  |
| h. Total | $\$ 9,150,721$ |  |  |

3. Preliminary Market Value of Assets as of June 30, 2017:
1(k) - 2(h)
\$ 1,761,497,335
4. Discounted State Appropriations Receivable
\$ 68,931,904 ${ }^{1}$
$\$ \quad 1,830,429,239{ }^{2}$
5. Market Value of Assets as of June 30, 2017: 3. + 4.
${ }^{1}$ The fiscal year 2018 recommended pension contribution of $\$ 144,208,823$ has been reduced to $\$ 68,931,904$. This amount reflects the State's planned fiscal year 2018 contribution of $\$ 72,104,412,50 \%$ of the recommended employer contribution discounted to the valuation date. This amount is included as a receivable contribution but may be subject to change per the requirements of the State's fiscal year 2018 spending plan.
${ }^{2}$ Excludes assets held in the Non-Contributory Group Insurance Fund.
B. Reconciliation of Market Value of Assets: June 30, 2016 to June 30, 2017
6. Market Value of Assets as of June 30, 2016
\$ 1,694,962,113
7. Increases
a. Pension Contributions

Members' Contributions \$ 23,560,509
Transfer from Other Systems 161,275
b. Employers' Contributions

State Appropriations 51,038,000
Non-Contributory Group Insurance $\quad 1,968,614$
Transfer from Other Systems 3,925
Administrative Fee Loans 5,111
c. Income

Per Statement
d. Total
\$ $\quad 207,401,590$
3. Decreases
a. Benefits Provided by Members

Withdrawals - Members' Contribution
Regular
\$
88,220
Death
Adjustment - Member Account Loans - State
3,659
b. Benefits Provided by Employers and Members Retirement Allowances 193,774,055
c. Benefits Provided by Employers

Benefit Expense - Pension Adjustment 21,469,398
Administrative Expense 296,712
Administrative Expense Loans
3,920
Adjusted Member Accounts Expense - State
(776)

NCGI Premium Expense
\$ $\quad \begin{array}{r}1,968,614 \\ \end{array}$
4. Preliminary Market Value of Assets
as of June 30, 2017: 1. +2.(d) - 3.(d)
5. Discounted State Appropriations Receivable
6. Market Value of Assets as of June 30, $2017=$ 4. +5 . \$ 1,830,429,239 ${ }^{2}$
${ }^{1}$ The fiscal year 2018 recommended pension contribution of $\$ 144,208,823$ has been reduced to $\$ 68,931,904$. This amount reflects the State's planned fiscal year 2018 contribution of $\$ 72,104,412,50 \%$ of the recommended employer contribution discounted to the valuation date. This amount is included as a receivable contribution but may be subject to change per the requirements of the State's fiscal year 2018 spending plan.
${ }^{2}$ Excludes assets held in the Non-Contributory Group Insurance Fund.

## C. Development of Actuarial Value of Assets as of July 1, 2017

The actuarial value of plan assets is determined using a five-year average market value with write up. The following summary shows the development of the actuarial value of plan assets for the current valuation:

1. Actuarial Value of Assets July 1, 2016
2. Net Cash Flow (excluding investment income)
3. Expected Investment Income at $7.65 \%$
a. Interest on assets as of July 1, 2016:
b. Interest on Net Cash Flows
c. Total
4. Expected Actuarial Value of Assets as of July 1, 2017:
5. $+2 .+3$. (c)
6. $20 \%$ of Difference from Preliminary Market Value of Assets
7. Discounted Receivable Employer Contributions
8. Actuarial Value of Assets as of July 1, $2017=4 .+5 .+6$.
${ }^{1}$ The fiscal year 2018 recommended pension contribution of $\$ 144,208,823$ has been reduced to $\$ 68,931,904$. This amount reflects the State's planned fiscal year 2018 contribution of $\$ 72,104,412,50 \%$ of the recommended employer contribution discounted to the valuation date. This amount is included as a receivable contribution but may be subject to change per the requirements of the State's fiscal year 2018 spending plan.
${ }^{2}$ Excludes assets held in the Non-Contributory Group Insurance Fund.
D. Accrued Liabilities as of July 1, 2017
9. Retirees and Beneficiaries
a. Service Retirement \$ 2,162,584,078
b. Disability Retirements 159,390,752
c. Beneficiaries
d. Total
\$

| $123,391,856$ |
| ---: |
| $2,445,366,686$ |

2. Terminated Vested Members
$\$ \quad 0$
3. Contributing Active Participants
a. Service Retirement
\$ 826,449,707
b. Ordinary Disability 18,650,125
c. Accidental Disability 26,039,895
d. Ordinary Death 8,549,345
e. Accidental Death 8,408,918
f. Vested Termination Withdrawal Benefits 973,333
g. Withdrawal Benefits 137,844
h. Total
\$ 889,209,167
4. Non-Contributing Active Participants
\$ 11,506,421
5. Total Accrued Liability ${ }^{1}=1 .(\mathrm{d})+2 .+3 .(\mathrm{h})+4$. \$ 3,346,082,274
${ }^{1}$ Excludes lump sum death benefits payable from the Non-Contributory Group Insurance Premium Fund

## E. Development of Normal Cost as of July 1, 2017

| 1. | Service Retirements | \$ |
| :--- | :--- | ---: |
| 2. | Ordinary Disability | $1,294,359$ |
| 3. | Accidental Disability | $2,683,102$ |
| 4. | Ordinary Death | 805,842 |
| 5. | Accidental Death | $1,043,026$ |
| 6. | Vested Termination | 94,251 |
| 7. | Withdrawal Benefits | 55,119 |
| 8. | Total Pension Normal Cost ${ }^{1}$ |  |
| $=1+2+3+4+5+6+7$ |  |  |
| ${ }^{1}$ Excludes lump sum death benefits payable from the Non-Contributory Group Insurance |  |  |

F. Summary of Active Member Actuarial Accrued Liability and Normal Cost as of July 1, 2017

| Membership Tier | Number of members | Total Appropriation Salary | Actuarial Accrued Liability | Gross Pension Normal Cost |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Tier 1 | 1,997 | 229,350,820 | 871,949,123 | \$ | 48,465,112 |
| Tier 2 | 815 | 59,671,402 | 28,766,465 |  | 9,196,918 |
| Total | 2,812 | 289,022,222 | \$ 900,715,588 |  | 57,662,030 |

G. Development of Recommended State Pension Contributions

1. Accrued Liability
2. Actuarial Value of Assets
3. Unfunded Actuarial Accrued

Liability/(Surplus) = 1. - 2 .
4. Amortization Period
5. Amortization of Unfunded Actuarial Accrued Liability payable July 1, 2018 (Level Dollar)
6. a. Gross Normal Cost (excluding Non-

Contributory Group Insurance Premium)
b. Expected Member Contributions
c. $\quad$ State Normal Cost = (a) - (b)
d. State Normal Cost payable July 1, 2018 $=(\mathrm{c})$ * 1.075
7. Total Recommended Pension Contribution as of July 1, $2018=5 .+6$.(d)
H. Non-Contributory Group Insurance Premium (One-Year Term Cost)
\$ 3,346,082,274
1,923,127,122
\$ 1,422,955,152
\$ 120,483,372
\$ 57,662,030
\$ $\begin{array}{r}\text { 21,681,230 } \\ \end{array}$
\$ 38,679,357
\$ 159,162,729
\$ 1,972,000

## Section IV - Comments Concerning the Valuation

The variation in liabilities and contributions reflects the System's actual experience during the year. The System experienced a net actuarial loss during the year that ended June 30, 2017.

The System experienced a net liability loss among active and retired members. There was also a loss due to an actual return on System assets less than expected. For valuation purposes, a $7.65 \%$ per annum rate or return was assumed for the period July 1, 2016 through June 30, 2017. The actual return on the Fund's actuarial value of assets was $6.26 \%$ for this period. The estimated fund return on the market value of assets was $12.77 \%$. However, due to the statutory asset smoothing method used for funding purposes, the return on the actuarial value of assets is less than the return on the market value of assets for this period.

The following shows the development of the actuarial experience and identifies the major experience components:

## A. Calculation of Actuarial Experience for the Year Ended June 30, 2017

1. Unfunded Accrued Liability/(Surplus) as of July 1, 2016
2. Gross Normal Cost as of July 1, 2016
3. Interest on (1) and (2) at 7.65\%
4. Actual Members' Contributions Received
5. Employers' Contributions (including discounted receivable)
6. Interest on Contributions at $7.65 \%$
7. Expected Unfunded Accrued Liability/(Surplus)
as of July $1,2017=(1)+(2)+(3)-(4)-(5)-(6)$
8. Change in Unfunded Accrued Liability due to the revised fiscal year 2017 State contribution ${ }^{1}$

2,249,065
9. Change in Unfunded Accrued Liability due to assumption changes
10. Change in Unfunded Accrued Liability due to Chapter 26, P.L. 2016
11. Actual Unfunded Accrued Liability as of July 1, 2017
12. Actuarial (Gain)/Loss $=(11)-(7)-(8)-(9)-(10)$
${ }^{1}$ The anticipated fiscal year 2017 contribution of $\$ 53,287,065$ has been decreased to $\$ 51,038,000$ to reflect the actual State contribution made during fiscal year 2017.

## B. Components of Actuarial Experience

1. Investment (Gain)/Loss
2. Other (Gain)/Loss, including mortality, changes in employee data and salary increases different than expected
$1,814,458$
3. Total Actuarial (Gain)/Loss
\$ 24,988,929

## C. Funded Ratios

The following table presents the System's funded ratios based on the actuarial value of assets (including receivables) and market value basis (including receivables)

|  | June 30, 2017 | June 30, 2016 | Change |
| :---: | ---: | ---: | :---: |
| Actuarial Value of Assets |  |  |  |
| Market Value of Assets | $57.5 \%$ | $60.2 \%$ | $(2.7) \%$ |
| Mark | $54.7 \%$ | $54.4 \%$ | $0.3 \%$ |

${ }^{1}$ Statutory funded ratio.
In accordance with Chapter 78, P.L. 2011, a pension committee is to be established when the System's "target funded ratio" is achieved. The "target funded ratio" is defined as the ratio of the actuarial value of assets over the actuarially determined accrued liabilities expressed as a percentage that will be $75 \%$ in State fiscal year 2012, and increased annually by equal increments in each of the subsequent seven fiscal years, until the ratio reaches $80 \%$ at which it is to remain for all subsequent fiscal years. The System attained the required $75 \%$ "target funded ratio" in Fiscal Year 2012, establishing the pension committee for the System.

The System's statutory funded ratio is $60.2 \%$ and $57.5 \%$ as of June 30, 2016 and June 30, 2017, respectively. For purposes of Chapter 78, P.L. 2011, the "target funded ratio" is $79.285 \%$ and $80.000 \%$ for June 30, 2016 and June 30, 2017, respectively. Therefore, the System's statutory funded ratio did not reach the "target funded ratio" for June 30, 2016 and remained below the "target funded ratio" for June 30, 2017.

There is a difference on a market value basis since the actuarial value smooths the investment gains and losses over time. Since July 1, 2000, the funded ratio on a market value basis has decreased by $78.1 \%$. This decrease is primarily due to investment losses experienced over the period, State contributions less than the statutorily determined amounts, and the strengthening of actuarial assumptions.

As of June 30, 2017, the market value of assets is less than the actuarial liability attributable to retirees. Furthermore, if the assets contained in the Annuity Savings Fund (ASF) of $\$ 212,674,110$ are excluded, the funded ratio of the remaining market value of assets to the actuarial accrued liability for retirees is $66.2 \%$.

As of June 30, 2017, the ratio of market value of assets to the prior year's benefit payment is 8.5. This is a simplistic measure of the number of years that the assets can cover benefit payments, excluding: future increases in those payments, State and member contributions, and investment income. This ratio increased by $4 \%$ from the previous year's ratio of 8.2. If ASF assets are excluded, since they represent accumulated contributions from active and inactive members, the ratio is 7.5 .

## D. Schedule of Assets and Liability

The following presents a ten-year schedule of the System's assets, liabilities and funded ratio. The System's assets and funded ratio are provided on a market value (including receivables) basis and actuarial value of assets (including receivables) basis.

| Actuarial <br> Valuation Date | Market <br> Value of Assets ${ }^{1}$ <br> (a) | Actuarial <br> Value of Assets <br> (b) | Accrued Liability (c) | Funded Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Market Value (a)/(c) | Actuarial Value (b)/(c) |
| 7/1/2017 | \$ 1,830,429,239 | \$ 1,923,127,122 | \$ 3,346,082,274 | 54.7\% | 57.5\% |
| 7/1/2016 | \$ 1,744,462,405 | \$ 1,931,131,875 | \$ 3,209,386,033 | 54.4\% | 60.2\% |
| 7/1/2015 | \$ 1,900,695,725 | \$ 1,969,239,472 | \$ 3,090,220,484 | 61.5\% | 63.7\% |
| 7/1/2014 | \$ 1,967,141,815 | \$ 1,981,376,495 | \$ 2,963,182,120 | 66.4\% | 66.9\% |
| 7/1/2013 | \$ 1,832,851,456 | \$ 1,990,797,312 | \$ 2,870,590,700 | 63.8\% | 69.4\% |
| 7/1/2012 | \$ 1,755,429,511 | \$ 1,995,388,133 | \$ 2,767,768,813 | 63.4\% | 72.1\% |
| 7/1/2011 | \$ 1,820,438,444 | \$ 2,015,624,130 | \$ 2,581,950,846 | 70.5\% | 78.1\% |
| 7/1/2010 | \$ 1,656,194,924 | \$ 2,019,350,048 | \$ 2,497,094,137 | 66.3\% | 80.9\% |
| 7/1/2009 | \$ 1,564,180,409 | \$ 2,067,242,877 | \$ 2,825,455,568 | 55.4\% | 73.2\% |
| 7/1/2008 | \$ 1,976,540,990 | \$ 2,136,006,509 | \$ 2,609,164,869 | 75.8\% | 81.9\% |

1. The information in the above table has been taken directly from the final valuation reports for each plan year and does not reflect subsequent changes in actual employer contribution amounts from the reported receivable contribution after the valuation reports w ere issued.

## E. Schedule of Employer Pension Contributions

The following table presents a ten-year schedule that provides information about the System's actuarially determined contribution and the percentage of the actuarially determined contribution recognized by the System as contributed.

|  | Actuarially Determined Contribution ${ }^{1}$ (a) |  | Actual Pension Contribution ${ }^{2}$ (b) |  | Contribution Deficiency (a) - (b) |  | Percentage of Contribution Made |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ending June 30 |  |  | Annual (b)/(a) | Five-Year Average |  |  |
| 2018 | \$ | 144,208,823 |  |  | \$ | 72,104,412 | \$ | 72,104,411 | 50.00\% | 37.11\% |
| 2017 | \$ | 133,217,662 | \$ | 51,038,000 | \$ | 82,179,662 | 38.31\% | 32.82\% |
| 2016 | \$ | 118,600,705 | \$ | 35,580,000 | \$ | 83,020,705 | 30.00\% | 28.02\% |
| 2015 | \$ | 108,904,703 | \$ | 37,358,000 | \$ | 71,546,703 | 34.30\% | 22.02\% |
| 2014 | \$ | 106,977,623 | \$ | 35,231,000 | \$ | 71,746,623 | 32.93\% | 15.16\% |
| 2013 | \$ | 89,535,903 | \$ | 25,582,000 | \$ | 63,953,903 | 28.57\% | 9.46\% |
| 2012 | \$ | 89,671,744 | \$ | 12,810,000 | \$ | 76,861,744 | 14.29\% | 13.59\% |
| 2011 | \$ | 103,745,281 | \$ | 0 | \$ | 103,745,281 | 0.00\% | 22.01\% |
| 2010 | \$ | 82,485,012 | \$ | 0 | \$ | 82,485,012 | 0.00\% | 27.29\% |
| 2009 | \$ | 75,889,699 | \$ | 3,378,000 | \$ | 72,511,699 | 4.45\% |  |

1. The information in the above table has been taken directly from the final valuation reports for each plan year and does not reflect subsequent changes in actual employer contribution amounts from the reported receivable contribution after the valuation reports w ere issued.
2. The fiscal year 2018 contribution amount reflects the State's planned contribution of $50 \%$ of the recommended employer contribution. This amount is subject to change per the requirements of the State's fiscal year 2018 spending plan.

## Section V - Level of Funding

The tables below present the liabilities determined on a Financial Accounting Standards Board ASC 715 (formerly Statement No. 87) Accumulated Benefit Obligation (ABO) basis. This is the same approach as was used under GASB Statement No. 5 except that no assumption is made as to future salary increases and assets are at market value without receivables.

## ASC 715 ABO Funded Ratios

| Actuarial present value of accumulated |
| :--- | :--- | :--- | :--- |
| benefits: |$\quad$ June 30, 2017 $\quad$ June 30, 2016

1. Assets at market value do not include any receivable contributions.

The actuarial present value of vested and non-vested accrued benefits was based on an interest rate of $7.50 \%$ for 2017 and $7.65 \%$ for 2016.

## Appendix A

Brief Summary of the Benefit and Contribution Provisions as Interpreted for Valuation Purposes
Eligibility for Membership
All members of the former State Police and Benevolent Fund: full-time commissioned officers, noncommissioned officers or troopers of the Division of State Police. Membership is a condition of employment.

## 1. Definitions

Plan Year
The 12-month period beginning on July 1 and ending on June 30.

## Service

Service rendered while a member as described above.

## Credited Service

A year is credited for each year of service as an officer or trooper in the State Police. Service with other State Retirement Systems is included in the calculation of the retirement benefit at the rate of $1 \%$ of final compensation for each year of service credit.

## Compensation

Based on contractual salary, including maintenance allowance, received by the member in the last 12 months of credited service preceding retirement, termination or death. Compensation does not include individual salary adjustments granted primarily in anticipation of the retirement or for temporary or extracurricular duties beyond the ordinary work day. (Effective June 30, 1996, Chapter 113, P.L. 1997 provided that the amount of compensation used for employer and member contributions and benefits under the program cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code; Chapter 1, P.L. 2010 provides that for members hired on or after May 22, 2010, the amount of compensation used for employer and member contributions and benefits under the System cannot exceed the annual maximum wage contribution base for Social Security, pursuant to the Federal Insurance Contributions Act.)

## Final Compensation

Average compensation received by member in last 12 months of credited service preceding retirement or death. Such term includes the value of the member's maintenance allowance for the same period. (Chapter 1, P.L. 2010 provides that for members hired on or after May 22, 2010, Final Compensation means the average annual salary for service for which contributions are made during any three fiscal years of membership providing the largest possible benefit to the member or the member's beneficiary. Such term shall include the value of the member's maintenance allowance.)

## Aggregate Contributions

The sum of all amounts deducted from the compensation of a member or contributed by him or on his behalf. For contribution purposes, compensation does not include overtime, bonuses, maintenance or any adjustments before retirement.

## Adjusted Final Compensation

The amount of compensation or compensation as adjusted, as the case may be, increased by the same percentage increase which is applied in any adjustments of the compensation schedule of active members after the member's death and before the date on which the deceased member of the retirement system would have accrued 25 years of service under an assumption of continuous service, at which time that
amount will become fixed. Adjustments to compensation or adjusted compensation shall take effect at the same time as any adjustments in the compensation schedule of active members.

## 2. Benefits

## Service Retirement

Mandatory retirement at age 55 . Voluntary retirement prior to age 55 with 20 years of credited service. Benefit is 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.
c. For members as of August 29, 1985 who would not have 20 years of service by age 55, benefit as defined in (a) above. For members as of August 29, 1985 who would have 20 years of service but would not have 25 years of service at age 55 , benefit as defined in (a) above plus $3 \%$ for each year of service in excess of 20 years.

## Vested Termination

Termination of service prior to age 55. Benefit for 10 to 20 years of service - Refund of aggregate contributions, or a deferred life annuity beginning at age 55 equal to $2 \%$ of final compensation for each year of service up to 20 years.

## Non-Vested Termination

Termination of service prior to age 55 and less than 10 years of service - Return of aggregate contributions.

## Ordinary Death

## Before Retirement

Death of an active member of the plan. Benefit is equal to:
a. Lump sum payment equal to $3-1 / 2$ times compensation, plus
b. Spousal life annuity of $50 \%$ of final compensation payable until spouse's death or remarriage. If there is no surviving spouse, or upon death or remarriage, a total of $20 \%, 35 \%$ or $50 \%$ of final compensation payable to one, two or three dependent children. If there is no surviving spouse (or dependent children), $25 \%$ or $40 \%$ of final compensation to one or two dependent parents.

Minimum benefit: Aggregate contributions.

## After Retirement

Death of a retired member of the plan. The benefit is equal to:
a. Lump sum of $50 \%$ of compensation, plus
b. Spousal life annuity of $50 \%$ of final compensation payable until spouse's death or remarriage. If there is no surviving spouse, or upon death or remarriage, a total of $20 \%, 35 \%$ or $50 \%$ of final compensation payable to one, two or three dependent children, respectively.

## Accidental Death

Death of an active member of the plan resulting during performance of duties. Benefit is equal to:
a. Lump sum payment equal to $3-1 / 2$ times compensation, plus
b. Spousal life annuity of $70 \%$ of adjusted final compensation payable until spouse's death. If there is no surviving spouse, or upon death of the surviving spouse, $70 \%$ of adjusted final compensation payable to surviving children in equal shares. If there is no surviving spouse or dependent children, $25 \%$ or $40 \%$ of adjusted final compensation to one or two dependent parents.

## Ordinary Disability Retirement

Mentally or physically incapacitated for the performance of his usual duty and of any other available duty in the Division of State Police and such incapacity is likely to be permanent.
a. The benefit for members with less than four years of service is a refund of the member's aggregate contributions.
b. For members with at least four years of service, the benefit is an immediate life annuity equal to $40 \%$ of final compensation plus $1-1 / 2 \%$ of final compensation for years of creditable service in excess of 26-2/3.
c. For members who are forced to retire with 20 but less than 25 years of service, the benefit is $50 \%$ of the member's final compensation plus $3 \%$ of final compensation for each year of service in excess of 20 years, to a maximum of $65 \%$ of final compensation.

For death following disability retirement, a lump sum equal to 3-1/2 times compensation if death occurs prior to age 55 or $1 / 2$ of compensation after age 55 .

## Accidental Disability Retirement

Totally and permanently disabled as a direct result of a traumatic event occurring during and as a result of his regular or assigned duties. Benefit is an immediate life annuity equal to $2 / 3$ of final compensation. Upon death after disability retirement, lump sum benefit of 3-1/2 times final compensation if death occurs before 55 and $1 / 2$ times final compensation if death occurs after 55.

## Loan Provision

Eligible if an active member of the State Police Retirement System with at least 3 years of contributory service. If eligible, a member may borrow an amount which is greater than $\$ 50$, but not more than $50 \%$ of aggregate contributions. The loan accrues interest at a rate set by the State Treasurer, which is based on a commercially reasonable rate as required by the Internal Revenue Code. An administrative fee may be charged for the loan.

## Member Contributions

Each member contributes $9.0 \%$ of Compensation.

## Summary of Changes from the July 1, 2016 Valuation

The definition of child has been changed to include children of age 18 or older and enrolled in a secondary school, or under age 24 and enrolled in a degree program in an institution of higher education for at least 12 credit hours in each semester. The accidental death benefit payable to dependent children if there is no surviving spouse has been increased to $70 \%$ of adjusted final compensation from a total of $20 \%, 35 \%$ or $50 \%$ of final compensation payable to one, two or three dependent children. The impact of these plan changes is shown in Section IV A which indicates an increase in the accrued liability of $\$ 239,606$ due to these plan changes.

## Appendix B

## Outline of Actuarial Assumptions and Methods

Valuation Interest Rate
7.50\% per annum, compounded annually.

COLA
No future COLA is assumed.
Salary Increases
Salaries are assumed to increase by $2.95 \%$ per year through fiscal year 2025 and $3.95 \%$ per year for fiscal years 2026 and thereafter.

401(a)(17) Pay Limit
\$270,000 for 2017 increasing $3.00 \%$ per annum, compounded annually.

## Social Security Wage Base

$\$ 127,200$ for 2017 increasing $4.00 \%$ per annum, compounded annually

## Termination

Withdrawal rates vary by length of service. Illustrative rates are shown below:

|  | Lives per Thousand |  |
| :---: | :---: | :---: |
|  | Less Than <br> Age | Five to Nineteen <br> Years of Service |
| 25 | 3.8 | 0.0 |
| 30 | 3.8 | 2.0 |
| 35 | 8.3 | 1.4 |
| 40 | 0.0 | 0.8 |
| 45 | 0.0 | 1.0 |
| 50 | 0.0 | 0.0 |

## Separations from Service

Representative mortality, disability and retirement rates are as follows:

|  | Annual Rates of ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ordinary Death ${ }^{2}$ |  |  |  |  |
| Age | Male | Female | Accidental Death | Ordinary Disability | Accidental Disability |
| 25 | 0.4 | 0.2 | 0.3 | 0.4 | 0.2 |
| 30 | 0.4 | 0.3 | 0.5 | 0.6 | 0.5 |
| 35 | 0.5 | 0.5 | 0.5 | 1.5 | 1.9 |
| 40 | 0.9 | 0.7 | 0.5 | 1.7 | 2.1 |
| 45 | 1.2 | 1.1 | 0.7 | 2.2 | 2.1 |
| 50 | 1.7 | 1.6 | 0.9 | 3.8 | 2.3 |

1 Per one thousand lives.
2 RP-2000 Combined Healthy Male (set back 3 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 as the base table. The base tables will be further projected using the Conduent Modified 2014 Projection Scale. Rates shown above are unadjusted for the Conduent Modified 2014 Projection Scale.

## Marriage

Husbands are assumed to be 3 years older than wives. Among the active population, $83.3 \%$ of participants are assumed married. No children are assumed. Neither the percentage married nor the number of children assumption is individually explicit but are considered reasonable as a single combined assumption.

## Valuation Method

Projected Unit Credit Method. This method essentially funds the System's benefits accrued to the valuation date. Experience gains and losses are recognized in future accrued liability contributions. In accordance with Chapter 78, P.L. 2011, beginning with the July 1, 2010 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over an open 30 year period. Beginning with the July 1, 2019 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars it will amortize the unfunded accrued liability over a closed 30 year period (i.e., for each subsequent valuation, the amortization period shall decrease by one year.) Beginning with the July 1, 2029 actuarial valuation, when the remaining amortization period reaches 20 years, any increase or decrease in the unfunded accrued liability as a result of actuarial losses or gains for subsequent valuation years shall serve to increase or decrease, respectively, the amortization period for the unfunded accrued liability, unless an increase in the amortization period will cause it to exceed 20 years. If an increase in the amortization period as a result of actuarial losses for a valuation year would exceed 20 years, the accrued liability contribution shall be computed for the valuation year using a 20 year amortization period.

To the extent that the amortization period remains an open period in future years and depending upon the specific circumstances, it should be noted that in the absence of emerging actuarial gains or contributions made in excess of the actuarially determined contribution, any existing unfunded accrued liability may not be fully amortized in the future.

## State Contribution Payable Dates

Prior to the July 1, 2017 valuation, it is assumed the State will make pension contributions the June 30th following the valuation date. Effective with the July 1, 2017 valuation, Chapter 83, P.L. 2016 requires the State to make pension contributions on a quarterly basis: at least 25 percent by September 30, at least 50 percent by December 31, at least 75 percent by March 31, and at least 100 percent by June 30.

## Receivable Contributions

For the July 1, 2016 valuation, State contributions are expected to be paid the June 30th following the valuation date and are discounted by the valuation interest rate of $7.65 \%$ to the valuation date. Effective with the July 1, 2017 valuation, State contributions are expected to be paid in equal quarterly amounts as of September 30th, December 31st, March 31st, and June 30th following the valuation date and are discounted by the interest rate of $7.50 \%$ to the valuation date.

## Asset Valuation Method

A five-year average of market values with write-up. This method takes into account appreciation (depreciation) in investments in order to smooth asset values by averaging the excess of the actual over the expected income, on a market value basis, over a five-year period.

## Deaths After Retirement

For healthy inactive members and beneficiaries of deceased members the RP-2000 Combined Healthy Male (set back 3 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 base tables will be further projected beyond the valuation date using the Conduent Modified 2014 mortality improvement scale. For disabled members the RP-2000 Combined Healthy Male (set forward 5 years) and RP-2000 Combined Healthy Female Mortality (set forward 5 years) tables are used. Illustrative rates of mortality unadjusted for the Conduent Modified 2014 Projection Scale are shown below:

| Age | Lives per Thousand |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Retired Members and Beneficiaries of Deceased Members |  | Disabled Members |  |
|  | Males | Females | Males | Females |
| 55 | 2.6 | 2.5 | 6.7 | 5.1 |
| 60 | 4.3 | 4.4 | 12.7 | 9.7 |
| 65 | 7.5 | 8.3 | 22.2 | 16.7 |
| 70 | 13.2 | 14.3 | 37.8 | 28.1 |
| 75 | 22.4 | 24.0 | 64.4 | 45.9 |
| 80 | 38.5 | 39.2 | 110.8 | 77.4 |
| 85 | 66.1 | 66.2 | 183.4 | 131.7 |
| 90 | 117.8 | 114.0 | 267.5 | 194.5 |

## Rates of Retirement

Rates of retirement vary by length of service and age (if more than 24 years of service) with $100 \%$ of those remaining at age 55 retiring at age 55 . The rates are shown below:

| Service | Lives Per 100 |
| :---: | :---: |
| 20 | 2.0 |
| 21 | 0.5 |
| 22 | 0.0 |
| 23 | 0.0 |
| 24 | 0.0 |
| 25 | 50.0 |


| Service | Lives Per 100 |
| :---: | :---: |
| Greater than 25: | 5.0 |
| (a) through age 42 | 28.0 |
| (b) ages 43-47 | 33.0 |
| (c) ages 48-53 | 61.0 |

Summary of Changes from the July 1, 2016 Valuation
The rate of investment return has been reduced from $7.65 \%$ per annum to $7.50 \%$ per annum. The impact of this assumption change is shown in Section IV A which indicates an increase in the accrued liability of $\$ 55,934,385$ due to this assumption change.

## Appendix C

Tabulations Used as a Basis for the 2017 Valuation
The following tables give a reconciliation of data from July 1, 2016 to June 30, 2017. Tables are also given showing active member number and salaries by age and length of service as of July 1, 2017 and showing the number and retirement allowances of beneficiaries classified by age as of July 1, 2017.

Table 1
Reconciliation of Data from July 1, 2016 to June 30, 2017

|  | Actives |  | Deferred <br> Vested | Retirees |  |  |  | Beneficiaries | Dependents | Domestic Relations Beneficiaries |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contrib. | Noncontrib. |  | Service | Special | Deferred | Disabled |  |  | Retirees | Disabilities |  |
| Members as of July $1,2016$ | 2,680 | 45 | 0 | 353 | 2,303 | 6 | 263 | 401 | 3 | 213 | 24 | 6,291 |
| Changed to Contributing | 4 | (4) |  |  |  |  |  |  |  |  |  |  |
| Changed to Noncontributing | (13) | 13 |  |  |  |  |  |  |  |  |  |  |
| Terminated Vested |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminated NonVested |  |  |  |  |  |  |  |  |  |  |  |  |
| Service Retirement | (10) | (1) |  | 11 |  |  |  |  |  |  |  |  |
| Special Retirement | (34) |  |  |  | 34 |  |  |  |  |  |  |  |
| Deferred Vesteds Now Payable |  |  |  |  |  |  |  |  |  |  |  |  |
| New Disabled | (6) | (1) |  |  |  |  | 7 |  |  |  | 1 | 1 |
| New Death | (2) | (1) |  | (20) | (21) | (1) | (2) | (24) |  | (1) |  | (72) |
| Payments Began |  |  |  |  |  |  |  |  |  |  |  |  |
| Payments Ceased |  |  |  |  |  |  |  |  |  | (8) | (2) | (10) |
| Lump sum | (5) | (1) |  |  |  |  |  |  |  |  |  | (6) |
| New Actives | 148 |  |  |  |  |  |  |  |  |  |  | 148 |
| Rehires |  |  |  |  |  |  |  |  |  |  |  |  |
| New Beneficiaries |  |  |  |  |  |  |  | 26 | 2 | 20 |  | 48 |
| Data Corrections |  |  |  |  |  |  |  |  |  |  |  |  |
| Members as of June 30, 2017 | 2,762 | 50 | 0 | 344 | 2,316 | 5 | 268 | 403 | 5 | 224 | 23 | 6,400 |

## Table 2

Distribution Of Active Members By Age and Service

| Age | Service | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary |  |  |  |  |  |  |  |  |  |  |
| 25 | Number Salary | $\begin{array}{r} 111 \\ 7,956,644 \end{array}$ | $\begin{array}{r} 41 \\ 2,998,282 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 152 \\ 10,954,926 \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} 193 \\ 13,837,571 \end{array}$ | $\begin{array}{r} 294 \\ 21,790,855 \end{array}$ | $\begin{array}{r} 53 \\ 4,740,301 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 540 \\ 40,368,727 \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 42 \\ 3,007,708 \end{array}$ | $\begin{array}{r} 94 \\ 7,082,531 \end{array}$ | $\begin{array}{r} 375 \\ 36,677,355 \end{array}$ | $\begin{array}{r} 100 \\ 10,823,456 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 611 \\ 57,591,050 \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 2 \\ 144,986 \end{array}$ | $\begin{array}{r} 13 \\ 998,903 \end{array}$ | $\begin{array}{r} 198 \\ 20,357,290 \end{array}$ | $\begin{array}{r} 355 \\ 40,768,083 \end{array}$ | $\begin{array}{r} 35 \\ 4,114,484 \end{array}$ | $\begin{array}{r} 1 \\ 116,119 \end{array}$ |  |  |  | $\begin{array}{r} 604 \\ 66,499,865 \end{array}$ |
| 45 | Number Salary |  | $\begin{array}{r} 2 \\ 152,215 \end{array}$ | $\begin{array}{r} 41 \\ 4,305,799 \end{array}$ | $\begin{array}{r} 165 \\ 19,270,067 \end{array}$ | $\begin{array}{r} 247 \\ 31,356,008 \end{array}$ | $\begin{array}{r} 40 \\ 5,446,942 \end{array}$ |  |  |  | $\begin{array}{r} 495 \\ 60,531,031 \end{array}$ |
| 50 and over | Number Salary |  | 1 64,258 | 4 292,504 | 44 $5,117,508$ | 148 $19,194,992$ | 158 $21,089,047$ | $\begin{array}{r} 54 \\ 7,172,232 \end{array}$ |  | 1 146,082 | $\begin{array}{r} 410 \\ 53,076,623 \end{array}$ |
| Total | Number Salary | $\begin{array}{r} 348 \\ 24,946,909 \end{array}$ | $\begin{array}{r} 445 \\ 33,087,044 \end{array}$ | $\begin{array}{r} 671 \\ 66,373,249 \end{array}$ | $\begin{array}{r} 664 \\ 75,979,114 \end{array}$ | $\begin{array}{r} 430 \\ 54,665,484 \end{array}$ | $\begin{array}{r} 199 \\ 26,652,108 \end{array}$ | $\begin{array}{r} 54 \\ 7,172,232 \end{array}$ |  | $\begin{array}{r} 1 \\ 146,082 \end{array}$ | $\begin{array}{r} 2,812 \\ 289,022,222 \end{array}$ |

Table 3

The Number And Annual Compensation Of
Active Members Distributed By Age
As Of June 30, 2017

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | mount | Number |  | ount |
| 24 | 9 | \$ | 644,885 |  |  |  |
| 25 | 26 |  | 1,863,090 | 2 | \$ | 143,290 |
| 26 | 39 |  | 2,797,436 | 1 |  | 71,645 |
| 27 | 72 |  | 5,219,629 | 3 |  | 214,951 |
| 28 | 108 |  | 7,807,524 | 5 |  | 358,257 |
| 29 | 94 |  | 6,859,403 | 16 |  | 1,169,731 |
| 30 | 96 |  | 7,057,662 | 4 |  | 306,859 |
| 31 | 104 |  | 7,835,807 | 6 |  | 444,355 |
| 32 | 104 |  | 8,290,208 | 3 |  | 238,921 |
| 33 | 91 |  | 7,580,763 | 4 |  | 309,756 |
| 34 | 115 |  | 10,356,421 | 2 |  | 197,316 |
| 35 | 114 |  | 10,470,514 | 11 |  | 1,052,407 |
| 36 | 128 |  | 12,672,461 | 6 |  | 535,443 |
| 37 | 137 |  | 14,104,543 | 3 |  | 311,426 |
| 38 | 126 |  | 13,286,591 | 5 |  | 491,568 |
| 39 | 118 |  | 13,015,925 | 4 |  | 438,193 |
| 40 | 129 |  | 14,394,424 | 9 |  | 993,941 |
| 41 | 94 |  | 10,459,115 | 4 |  | 453,201 |
| 42 | 109 |  | 12,289,247 | 6 |  | 677,660 |
| 43 | 85 |  | 9,843,416 | 5 |  | 600,770 |
| 44 | 84 |  | 10,015,252 | 6 |  | 662,288 |
| 45 | 89 |  | 11,022,431 | 2 |  | 229,289 |
| 46 | 106 |  | 12,992,276 | 7 |  | 915,719 |
| 47 | 104 |  | 13,339,143 | 7 |  | 910,447 |
| 48 | 88 |  | 11,203,796 | 2 |  | 247,532 |
| 49 | 74 |  | 9,581,185 | 2 |  | 258,129 |
| 50 | 56 |  | 7,184,498 | 3 |  | 400,296 |
| 51 | 60 |  | 7,930,696 | 3 |  | 395,546 |
| 52 | 39 |  | 5,187,561 | 2 |  | 280,262 |
| 53 | 36 |  | 4,659,480 |  |  |  |
| 54 | 28 |  | 3,512,750 | 2 |  | 285,012 |
| 55 | 11 |  | 1,458,886 |  |  |  |
| 58 | 1 |  | 112,204 |  |  |  |
| 60 | 1 |  | 102,208 |  |  |  |
| 63 | 1 |  | 130,500 |  |  |  |
| 67 | 1 |  | 146,082 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,677 | \$ | 275,428,012 | 135 | \$ | 13,594,210 |

Of the 2,812 active members included in the June 30, 2017 valuation data, 1,743 are vested and 1,069 have not yet completed the vesting service requirement.

Table 4

The Number And Annual Compensation Of
Active Members Distributed By Service
As Of June 30, 2017

| Years Of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | mount | Number |  | ount |
| 0 | 146 | \$ | 10,462,516 | 3 | \$ | 214,983 |
| 1 | 99 |  | 7,092,881 | 11 |  | 788,095 |
| 2 | 84 |  | 6,027,077 | 5 |  | 361,357 |
| 3 | 120 |  | 8,603,246 | 8 |  | 573,160 |
| 4 | 185 |  | 13,741,882 | 9 |  | 670,878 |
| 5 | 74 |  | 5,817,160 | 7 |  | 562,352 |
| 6 | 17 |  | 1,236,651 | 3 |  | 229,420 |
| 7 | 18 |  | 1,330,168 | 4 |  | 322,127 |
| 8 | 86 |  | 7,404,283 | 1 |  | 89,027 |
| 9 | 146 |  | 13,762,870 | 7 |  | 666,415 |
| 10 | 67 |  | 6,426,684 | 8 |  | 780,599 |
| 11 | 91 |  | 9,171,481 | 5 |  | 508,037 |
| 12 | 253 |  | 26,815,305 | 7 |  | 748,548 |
| 13 | 158 |  | 17,467,727 | 3 |  | 327,739 |
| 14 | 117 |  | 13,098,146 | 9 |  | 1,022,156 |
| 15 | 62 |  | 6,933,028 | 3 |  | 353,055 |
| 16 | 256 |  | 30,323,773 | 12 |  | 1,425,947 |
| 17 | 41 |  | 4,673,783 | 3 |  | 353,760 |
| 18 | 31 |  | 3,530,211 |  |  |  |
| 19 | 116 |  | 14,553,155 | 8 |  | 993,784 |
| 20 | 107 |  | 13,425,115 | 6 |  | 777,310 |
| 21 | 20 |  | 2,439,961 |  |  |  |
| 22 | 134 |  | 17,827,771 | 8 |  | 1,118,177 |
| 23 | 97 |  | 13,005,351 | 4 |  | 569,032 |
| 24 | 68 |  | 9,089,380 |  |  |  |
| 25 | 13 |  | 1,714,068 |  |  |  |
| 26 | 7 |  | 925,846 |  |  |  |
| 27 | 9 |  | 1,210,179 | 1 |  | 138,252 |
| 28 | 8 |  | 1,123,945 |  |  |  |
| 29 | 22 |  | 2,877,422 |  |  |  |
| 30 | 15 |  | 2,001,557 |  |  |  |
| 31 | 6 |  | 743,016 |  |  |  |
| 32 | 3 |  | 426,292 |  |  |  |
| 39 | 1 |  | 146,082 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,677 | \$ | 275,428,012 | 135 | \$ | 13,594,210 |

Of the 2,812 active members included in the June 30, 2017 valuation data, 1,743 are vested and 1,069 have not yet completed the vesting service requirement.

Table 5
State Police Retirement System of New Jersey

|  | Service Retirement |  |  | Special Retirement (25 Years of Service) |  |  | Ordinary Disability |  |  | Accidental Disability |  |  | Survivors |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average Age At Retirement | Average Annual Benefit At Retirement ${ }^{1}$ |  | Average Age At Retirement | Average Annual Benefit At Retirement ${ }^{1}$ |  | Average Age At Retirement | Average Annual Benefit At Retirement ${ }^{1}$ |  | Average Age At Retirement | Average Annual Benefit At Retirement ${ }^{1}$ |  | Average Age At Retirement ${ }^{2}$ | Average Annual Benefit At Retirement |  |
| All Retirees | 50.3 | \$ | 33,057 | 51.0 | \$ | 69,229 | 41.7 | \$ | 34,017 | 40.0 | \$ | 52,437 | 42.0 | \$ | 25,695 |
| New Retirees | 54.2 | \$ | 63,055 | 52.8 | \$ | 97,945 | N/A |  | N/A | 41.8 | \$ | 74,770 | 43.4 | \$ | 29,938 |


|  | All Retirements(excluding Survivors) |  |  |
| :---: | :---: | :---: | :---: |
|  | Average Age At Retirement |  | Benefit ent |
| All Retirees | 50.0 | \$ | 62,793 |

${ }^{1}$ The Average Annual Benefit at Retirement does not reflect COLA's granted after retirement.

## ${ }^{2}$ Calculated as of Member's Date of Retirement

Table 6

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of June 30, 2017

## Service Retirements

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  |  |
| 45 |  |  |  | 2 | \$ | 92,036 |
| 46 |  |  |  | 2 |  | 26,423 |
| 47 |  |  |  | 3 |  | 61,488 |
| 48 | 3 | \$ | 236,883 | 6 |  | 102,580 |
| 49 | 9 |  | 732,006 | 2 |  | 57,364 |
| 50 | 38 |  | 3,008,946 | 10 |  | 197,938 |
| 51 | 72 |  | 5,786,791 | 11 |  | 278,394 |
| 52 | 111 |  | 9,041,282 | 16 |  | 584,339 |
| 53 | 143 |  | 11,084,938 | 21 |  | 577,186 |
| 54 | 136 |  | 11,020,117 | 19 |  | 671,316 |
| 55 | 129 |  | 10,224,882 | 19 |  | 707,316 |
| 56 | 122 |  | 9,620,013 | 18 |  | 717,715 |
| 57 | 79 |  | 6,013,200 | 13 |  | 471,324 |
| 58 | 103 |  | 8,103,504 | 21 |  | 849,582 |
| 59 | 91 |  | 7,044,353 | 12 |  | 303,855 |
| 60 | 94 |  | 7,149,558 | 9 |  | 487,779 |
| 61 | 89 |  | 6,597,817 | 8 |  | 298,228 |
| 62 | 62 |  | 4,519,731 | 10 |  | 317,146 |
| 63 | 79 |  | 5,840,092 | 7 |  | 294,852 |
| 64 | 50 |  | 3,727,773 | 5 |  | 82,597 |
| 65 | 59 |  | 4,301,332 | 3 |  | 100,462 |
| 66 | 69 |  | 4,698,016 | 4 |  | 50,634 |
| 67 | 50 |  | 3,536,277 | 2 |  | 36,622 |
| 68 | 68 |  | 4,708,348 | 6 |  | 148,901 |
| 69 | 63 |  | 3,944,053 | 1 |  | 31,212 |
| 70 | 83 |  | 5,428,787 | 9 |  | 204,060 |
| 71 | 94 |  | 5,738,034 | 7 |  | 146,918 |
| 72 | 72 |  | 4,220,970 | 6 |  | 129,630 |
| 73 | 63 |  | 3,504,198 |  |  |  |
| 74 | 83 |  | 4,665,614 |  |  |  |
| 75 | 75 |  | 4,021,313 | 1 |  | 12,000 |
| 76 | 79 |  | 4,120,163 | 3 |  | 52,772 |
| 77 | 52 |  | 2,733,573 |  |  |  |

Table 6

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of June 30, 2017
Service Retirements
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | mount | Number |  | unt |
| 78 | 38 | \$ | 2,005,276 | 3 | \$ | 77,114 |
| 79 | 45 |  | 2,223,489 | 2 |  | 57,691 |
| 80 | 22 |  | 1,038,385 |  |  |  |
| 81 | 25 |  | 1,092,899 | 1 |  | 2,600 |
| 82 | 21 |  | 992,113 |  |  |  |
| 83 | 14 |  | 655,030 |  |  |  |
| 84 | 14 |  | 604,307 |  |  |  |
| 85 | 22 |  | 1,021,488 |  |  |  |
| 86 | 21 |  | 856,646 |  |  |  |
| 87 | 17 |  | 683,824 |  |  |  |
| 88 | 16 |  | 631,234 |  |  |  |
| 89 | 20 |  | 865,267 |  |  |  |
| 90 | 5 |  | 159,639 |  |  |  |
| 91 | 12 |  | 366,989 |  |  |  |
| 92 | 6 |  | 210,783 |  |  |  |
| 93 | 5 |  | 150,973 |  |  |  |
| 94 | 2 |  | 67,072 |  |  |  |
| 95 | 1 |  | 23,316 |  |  |  |
| 96 | 1 |  | 40,453 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,627 | \$ | 179,061,747 | 262 | \$ | 8,230,074 |

Table 7
The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of June 30, 2017
Beneficiaries Of Deceased Pensioners

| Age | Men |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number |  |  |
| 49 |  |  | 1 | \$ | 41,495 |
| 51 |  |  | 1 |  | 45,902 |
| 54 |  |  | 2 |  | 80,325 |
| 55 |  |  | 3 |  | 143,528 |
| 57 |  |  | 1 |  | 31,357 |
| 58 |  |  | 5 |  | 232,377 |
| 59 | 1 | \$ 10,100 | 2 |  | 104,570 |
| 60 |  |  | 5 |  | 224,658 |
| 61 |  |  | 2 |  | 96,960 |
| 62 | 1 | 63,120 | 3 |  | 110,702 |
| 63 |  |  | 2 |  | 69,443 |
| 64 |  |  | 4 |  | 180,787 |
| 65 |  |  | 3 |  | 135,059 |
| 66 |  |  | 2 |  | 102,619 |
| 67 |  |  | 10 |  | 464,199 |
| 68 |  |  | 6 |  | 220,250 |
| 69 |  |  | 13 |  | 488,819 |
| 70 | 1 | 10,132 | 17 |  | 715,227 |
| 71 |  |  | 4 |  | 155,118 |
| 72 |  |  | 9 |  | 375,112 |
| 73 |  |  | 15 |  | 604,690 |
| 74 |  |  | 12 |  | 429,507 |
| 75 | 1 | 41,306 | 16 |  | 648,071 |
| 76 |  |  | 17 |  | 643,973 |
| 77 |  |  | 13 |  | 453,404 |
| 78 |  |  | 8 |  | 320,596 |

Table 7
The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of June 30, 2017
Beneficiaries Of Deceased Pensioners
(Continued)

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 79 |  |  | 14 | \$ |

## Table 8

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of June 30, 2017
Beneficiaries Of Deceased Active Employees

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 1 | 1 | \$ | 25,020 |  |  |  |
| 2 | 1 |  | 25,020 |  |  |  |
| 28 |  |  |  | 1 | \$ | 44,198 |
| 30 |  |  |  | 1 |  | 38,645 |
| 37 |  |  |  | 2 |  | 127,918 |
| 41 |  |  |  | 1 |  | 75,469 |
| 42 |  |  |  | 1 |  | 47,113 |
| 44 |  |  |  | 1 |  | 76,154 |
| 49 |  |  |  | 2 |  | 138,801 |
| 51 |  |  |  | 2 |  | 130,089 |
| 52 |  |  |  | 1 |  | 76,449 |
| 53 |  |  |  | 1 |  | 37,577 |
| 54 |  |  |  | 2 |  | 151,690 |
| 55 |  |  |  | 1 |  | 76,449 |
| 56 |  |  |  | 1 |  | 52,511 |
| 58 |  |  |  | 1 |  | 65,123 |
| 59 |  |  |  | 2 |  | 111,851 |
| 62 |  |  |  | 1 |  | 40,928 |
| 63 |  |  |  | 1 |  | 45,884 |
| 65 |  |  |  | 1 |  | 59,625 |
| 66 |  |  |  | 2 |  | 84,074 |
| 67 |  |  |  | 1 |  | 56,211 |
| 68 |  |  |  | 2 |  | 75,000 |
| 70 |  |  |  | 1 |  | 36,769 |
| 71 |  |  |  | 1 |  | 50,776 |
| 72 |  |  |  | 3 |  | 113,570 |
| 73 |  |  |  | 2 |  | 79,894 |
| 74 |  |  |  | 3 |  | 146,710 |
| 75 |  |  |  | 1 |  | 47,768 |
| 76 |  |  |  | 2 |  | 80,957 |
| 77 |  |  |  | 2 |  | 62,886 |
| 78 |  |  |  | 1 |  | 21,964 |
| 80 |  |  |  | 1 |  | 41,037 |
| 82 |  |  |  | 1 |  | 29,387 |
| 83 |  |  |  | 1 |  | 36,622 |
| 85 |  |  |  | 1 |  | 24,135 |
| 87 |  |  |  | 1 |  | 27,716 |
| 88 |  |  |  | 1 |  | 22,518 |
| 92 |  |  |  | 1 |  | 19,466 |
| 93 |  |  |  | 2 |  | 52,289 |
| 96 |  |  |  | 1 |  | 18,325 |
| 97 |  |  |  | 1 |  | 20,460 |
|  |  |  |  |  |  |  |
| Total | 2 | \$ | 50,040 | 55 | \$ | 2,545,008 |

Table 9

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of June 30, 2017
Ordinary Disability Retirements

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 36 | 1 | \$ | 40,973 |  |  |  |
| 38 | 1 |  | 31,970 |  |  |  |
| 39 | 1 |  | 43,464 |  |  |  |
| 41 | 2 |  | 79,960 |  |  |  |
| 42 | 2 |  | 43,677 | 1 | \$ | 43,524 |
| 45 |  |  |  | 1 |  | 38,141 |
| 46 | 1 |  | 40,556 | 1 |  | 28,593 |
| 47 | 1 |  | 43,528 |  |  |  |
| 48 | 2 |  | 84,009 |  |  |  |
| 49 | 4 |  | 160,925 |  |  |  |
| 50 | 3 |  | 106,726 |  |  |  |
| 51 | 7 |  | 253,350 | 3 |  | 43,900 |
| 52 | 4 |  | 112,840 |  |  |  |
| 53 | 8 |  | 282,468 | 3 |  | 118,406 |
| 54 | 5 |  | 225,846 | 3 |  | 108,757 |
| 55 | 5 |  | 199,616 | 3 |  | 69,652 |
| 56 | 5 |  | 195,046 | 3 |  | 72,623 |
| 57 | 1 |  | 37,270 | 1 |  | 18,497 |
| 58 | 6 |  | 302,670 | 2 |  | 65,299 |
| 59 | 5 |  | 178,259 | 1 |  | 9,007 |
| 60 | 4 |  | 247,497 | 1 |  | 51,125 |
| 61 | 3 |  | 146,915 |  |  |  |
| 62 | 1 |  | 56,880 |  |  |  |
| 63 | 4 |  | 205,345 | 1 |  | 26,235 |
| 64 | 2 |  | 83,864 |  |  |  |
| 65 | 3 |  | 143,500 |  |  |  |
| 66 | 2 |  | 29,357 | 1 |  | 8,141 |
| 67 | 1 |  | 26,351 | 1 |  | 21,833 |
| 68 | 1 |  | 50,998 |  |  |  |
| 69 | 2 |  | 28,573 |  |  |  |
| 70 | 4 |  | 132,403 | 1 |  | 32,532 |
| 72 | 2 |  | 49,944 |  |  |  |
| 73 | 2 |  | 88,750 | 1 |  | 13,757 |
| 74 | 1 |  | 23,847 |  |  |  |
| 75 | 3 |  | 82,557 |  |  |  |
| 76 | 2 |  | 39,317 |  |  |  |
| 77 | 3 |  | 73,789 |  |  |  |
| 78 | 2 |  | 75,309 |  |  |  |
| 79 | 2 |  | 40,046 |  |  |  |
| 80 | 1 |  | 19,311 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 109 | \$ | 4,107,706 | 28 | \$ | 770,022 |

Table 10

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of June 30, 2017

## Accidental Disability Retirements

|  | Men |  | Women |  |
| :---: | ---: | ---: | ---: | ---: |
|  | Age | Number | Amount | Number |
| 35 | 2 | \$ | 108,180 | 1 |

