

DANVERS
RETIREMENT SYSTEM
AUDIT REPORT
JANUARY 1, 2015 - DECEMBER 31, 2018



PUBLIC EMPLOYEE RETIREMENT ADMINISTRATION COMMISSION
COMMONWEALTH OF MASSACHUSETTS

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PERAC

COMMONWEALTH OF MASSACHUSETTS | PUBLIC EMPLOYEE RETIREMENT ADMINISTRATION COMMISSION

PHILIP Y. BROWN, ESQ., *Chairman*

JOHN W. PARSONS, ESQ., *Executive Director*

Auditor SUZANNE M. BUMP | KATHLEEN M. FALLON | KATE FITZPATRICK | JAMES M. MACHADO | RICHARD MacKINNON, Jr. | JENNIFER F. SULLIVAN

May 10, 2021

The Public Employee Retirement Administration Commission has completed an examination of certain activities of the Danvers Retirement System pursuant to G.L. c. 32, § 21. The examination covered the period from January 1, 2015 to December 31, 2018. Based on an assessment in accordance with the policy outlined in PERAC Memo #18/2019, the scope of this audit was modified as noted below and was conducted in accordance with the accounting and management standards established by the Public Employee Retirement Administration Commission in regulation 840 CMR 25.00.

The specific objectives of our review were to determine: 1) that the Board is exercising appropriate fiduciary oversight, 2) that cash and investment balances are accurately stated, 3) that investment related contracts were procured in compliance with the provisions of Section 23B of Chapter 32, 4) that travel expenses were properly documented and accounted for, 5) that retirement contributions are accurately deducted, 6) that retirement allowances were correctly calculated, 7) that required member documentation is maintained, 8) that appropriations certified by PERAC have been paid to the retirement system, and 9) that refunds issued by the system were correctly calculated.

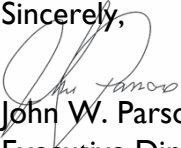
To achieve these objectives, we inspected certain records of the Danvers Retirement Board in the above areas. Specifically, we reviewed the minutes of the Board meetings for compliance with fiduciary oversight, verified cash and investment balances, and tested a sample of travel expenses for Board approvals, supporting documentation and proper accounting. We reviewed procurement files for contracts awarded and confirmed that all required documents were maintained. We tested the payroll records of a sample of active members to confirm that the correct percentage of regular compensation is being deducted, including the additional two percent over \$30,000. We also tested a sample of members who retired during our audit period to verify that their retirement allowance was calculated in accordance with the statute. We reviewed a sample of member files for accuracy and completeness. We reviewed appropriations received and compared to PERAC appropriation letters for the fiscal years during the audit period. We also tested refunds issued during the audit period and recalculated the interest portion of the refunds tested.

In our opinion, for those areas tested, the financial records are being maintained and the management functions are being performed in conformity with the standards established by the Public Employee Retirement Administration Commission.

We commend the Danvers Retirement Board for the exemplary operation of the system.

In closing, I acknowledge the work of the auditors who conducted this examination, and express my appreciation to the Board and staff for their courtesy and cooperation.

Sincerely,


John W. Parsons, Esq.
Executive Director



ANNUAL STATEMENTS (as submitted)

STATEMENT OF LEDGER ASSETS AND LIABILITIES

	AS OF DECEMBER 31,			
	2018	2017	2016	2015
Net Assets Available For Benefits:				
Cash	\$4,176,236	\$5,339,312	\$2,595,395	\$2,447,057
Fixed Income Securities	19,933,664	11,848,386	13,464,572	13,405,182
Equities	22,741,468	34,340,635	30,671,445	19,481,619
Pooled Domestic Equity Funds	10,034,799	9,560,019	8,282,502	15,637,011
Pooled International Equity Funds	19,348,713	21,499,708	17,439,538	17,561,623
Pooled Domestic Fixed Income Funds	3,274,153	5,796,287	5,381,973	2,927,157
Pooled Alternative Investment Funds	15,032,328	17,857,806	13,635,663	14,179,885
Pooled Real Estate Funds	6,858,767	5,251,159	6,116,982	5,501,396
Hedge Funds	6,194,661	6,292,580	5,817,836	4,594,402
Interest Due and Accrued	143,152	88,288	80,173	106,761
Accounts Receivable	552,960	148,734	955,453	192,034
Accounts Payable	(534,454)	(132,262)	(1,720,220)	(53,200)
Total	<u>\$107,756,448</u>	<u>\$117,890,652</u>	<u>\$102,721,312</u>	<u>\$95,980,927</u>
Fund Balances:				
Annuity Savings Fund	\$28,958,031	\$28,138,946	\$26,557,760	\$25,954,924
Annuity Reserve Fund	8,713,955	8,295,695	8,894,465	8,584,229
Pension Fund	6,287,674	6,799,624	6,444,641	7,517,467
Military Service Fund	18,533	15,612	13,105	13,092
Expense Fund	0	0	0	0
Pension Reserve Fund	63,778,255	74,640,776	60,811,341	53,911,215
Total	<u>\$107,756,448</u>	<u>\$117,890,652</u>	<u>\$102,721,312</u>	<u>\$95,980,927</u>

ANNUAL STATEMENTS (as submitted) (Continued)

STATEMENT OF CHANGES IN FUND BALANCES

	Annuity Savings Fund	Annuity Reserve Fund	Pension Fund	Military Service Fund	Expense Fund	Pension Reserve Fund	Total All Funds
Beginning Balance 2015	\$25,306,831	\$8,193,133	\$6,433,049	\$11,757	\$0	\$59,744,483	\$99,689,253
Receipts	2,754,844	256,045	6,071,623	1,335	778,381	(1,203,701)	8,658,526
Interfund Transfers	(1,849,173)	1,849,173	4,629,567	0	0	(4,629,567)	0
Disbursements	(257,578)	(1,714,122)	(9,616,771)	0	(778,381)	0	(12,366,852)
Ending Balance 2015	25,954,924	8,584,229	7,517,467	13,092	0	53,911,215	95,980,927
Receipts	2,949,980	260,388	6,476,851	13	755,459	9,426,718	19,869,408
Interfund Transfers	(1,893,081)	1,893,081	2,526,592	0	0	(2,526,592)	0
Disbursements	(454,064)	(1,843,232)	(10,076,269)	0	(755,459)	0	(13,129,024)
Ending Balance 2016	26,557,760	8,894,465	6,444,641	13,105	(0)	60,811,341	102,721,312
Receipts	3,094,325	260,616	7,092,369	2,506	851,917	17,549,298	28,851,031
Interfund Transfers	(1,094,921)	1,094,921	3,719,862	0	0	(3,719,862)	0
Disbursements	(418,217)	(1,954,308)	(10,457,248)	0	(851,917)	0	(13,681,690)
Ending Balance 2017	28,138,946	8,295,695	6,799,624	15,612	(0)	74,640,776	117,890,652
Receipts	3,506,446	255,367	7,661,438	2,922	903,211	(8,187,547)	4,141,838
Interfund Transfers	(2,215,002)	2,215,002	2,674,975	0	0	(2,674,975)	0
Disbursements	(472,359)	(2,052,109)	(10,848,364)	0	(903,211)	0	(14,276,042)
Ending Balance 2018	<u>\$28,958,031</u>	<u>\$8,713,955</u>	<u>\$6,287,674</u>	<u>\$18,533</u>	<u>(\$0)</u>	<u>\$63,778,255</u>	<u>\$107,756,448</u>

ANNUAL STATEMENTS (as submitted) (Continued)

STATEMENT OF RECEIPTS

	FOR THE PERIOD ENDING DECEMBER 31,			
	2018	2017	2016	2015
Annuity Savings Fund:				
Members Deductions	\$2,862,232	\$2,748,263	\$2,607,781	\$2,537,236
Transfers from Other Systems	600,787	234,836	297,429	123,267
Member Make Up Payments and Re-deposits	176	26,800	9,188	62,308
Member Payments from Rollovers	0	46,918	166	4,673
Investment Income Credited to Member Accounts	<u>43,252</u>	<u>37,508</u>	<u>35,416</u>	<u>27,360</u>
Sub Total	<u>3,506,446</u>	<u>3,094,325</u>	<u>2,949,980</u>	<u>2,754,844</u>
Annuity Reserve Fund:				
Investment Income Credited to the Annuity Reserve Fund	<u>255,367</u>	<u>260,616</u>	<u>260,388</u>	<u>256,045</u>
Pension Fund:				
3 (B) (c) Reimbursements from Other Systems Received from Commonwealth for COLA and Survivor Benefits	227,324	199,529	165,749	144,746
Pension Fund Appropriation	132,525	94,952	51,165	114,534
Settlement of Workers' Compensation Claims	7,301,589	6,760,538	6,259,936	5,796,238
Recovery of 91A Overearnings	0	15,000	0	7,000
	<u>0</u>	<u>22,349</u>	<u>0</u>	<u>9,105</u>
Sub Total	<u>7,661,438</u>	<u>7,092,369</u>	<u>6,476,851</u>	<u>6,071,623</u>
Military Service Fund:				
Contribution Received from Municipality on Account of Military Service	2,906	2,493	0	1,323
Investment Income Credited to the Military Service Fund	<u>16</u>	<u>13</u>	<u>13</u>	<u>12</u>
Sub Total	<u>2,922</u>	<u>2,506</u>	<u>13</u>	<u>1,335</u>
Expense Fund:				
Expense Fund Appropriation	301,066	299,918	297,072	284,940
Investment Income Credited to the Expense Fund	<u>602,145</u>	<u>551,999</u>	<u>458,387</u>	<u>493,441</u>
Sub Total	<u>903,211</u>	<u>851,917</u>	<u>755,459</u>	<u>778,381</u>
Pension Reserve Fund:				
Federal Grant Reimbursement	54,963	50,329	57,731	57,696
Interest Not Refunded	4,067	2,796	1,261	0
Miscellaneous Income	0	0	(1,927)	0
Excess Investment Income	<u>(8,246,576)</u>	<u>17,496,172</u>	<u>9,369,652</u>	<u>(1,261,397)</u>
Sub Total	<u>(8,187,547)</u>	<u>17,549,298</u>	<u>9,426,718</u>	<u>(1,203,701)</u>
Total Receipts, Net	<u>\$4,141,838</u>	<u>\$28,851,031</u>	<u>\$19,869,408</u>	<u>\$8,658,526</u>

ANNUAL STATEMENTS (as submitted) (Continued)

STATEMENT OF DISBURSEMENTS

FOR THE PERIOD ENDING DECEMBER 31,				
	2018	2017	2016	2015
Annuity Savings Fund:				
Refunds to Members	\$166,333	\$132,637	\$133,673	\$74,493
Transfers to Other Systems	<u>306,026</u>	<u>285,581</u>	<u>320,391</u>	<u>183,085</u>
Sub Total	<u>472,359</u>	<u>418,217</u>	<u>454,064</u>	<u>257,578</u>
Annuity Reserve Fund:				
Annuities Paid	2,033,669	1,954,308	1,843,232	1,714,122
Option B Refunds	<u>18,440</u>	<u>0</u>	<u>0</u>	<u>0</u>
Sub Total	<u>2,052,109</u>	<u>1,954,308</u>	<u>1,843,232</u>	<u>1,714,122</u>
Pension Fund:				
Pensions Paid:				
Regular Pension Payments	8,430,224	8,116,299	7,869,725	7,417,393
Survivorship Payments	401,442	377,119	355,541	344,665
Ordinary Disability Payments	63,350	61,901	60,460	59,072
Accidental Disability Payments	880,047	901,939	848,016	850,089
Accidental Death Payments	336,658	350,990	358,880	383,760
Section 101 Benefits	39,178	27,517	20,260	19,670
3 (8) (c) Reimbursements to Other Systems	<u>697,464</u>	<u>621,483</u>	<u>563,388</u>	<u>542,122</u>
Sub Total	<u>10,848,364</u>	<u>10,457,248</u>	<u>10,076,269</u>	<u>9,616,771</u>
Expense Fund:				
Salaries	104,314	101,881	97,415	95,600
Legal Expenses	3,920	940	2,760	7,942
Medical Expenses	84	0	25	0
Travel Expenses	596	1,704	2,660	2,328
Administrative Expenses	2,075	2,110	1,860	3,761
Actuarial Services	8,000	7,975	9,575	18,275
Education and Training	376	169	130	205
Furniture and Equipment	5,820	846	699	0
Management Fees	604,528	577,636	483,156	494,992
Custodial Fees	65,054	53,448	56,709	67,321
Consultant Fees	75,000	75,000	71,250	60,000
Service Contracts	26,280	23,200	22,310	21,250
Fiduciary Insurance	<u>7,163</u>	<u>7,008</u>	<u>6,910</u>	<u>6,707</u>
Sub Total	<u>903,211</u>	<u>851,917</u>	<u>755,459</u>	<u>778,381</u>
Total Disbursements	<u>\$14,276,042</u>	<u>\$13,681,690</u>	<u>\$13,129,024</u>	<u>\$12,366,852</u>

ANNUAL STATEMENTS (as submitted) (Continued)

INVESTMENT INCOME

	FOR THE PERIOD ENDING DECEMBER 31,			
	2018	2017	2016	2015
Investment Income Received From:				
Cash	\$69,104	\$25,641	\$4,261	\$1,637
Fixed Income	430,668	398,707	600,328	547,349
Equities	524,454	563,250	575,464	439,210
Pooled or Mutual Funds	<u>1,521,823</u>	<u>1,316,013</u>	<u>1,225,135</u>	<u>1,497,998</u>
Total Investment Income	<u>2,546,049</u>	<u>2,303,611</u>	<u>2,405,188</u>	<u>2,486,194</u>
Plus:				
Realized Gains	4,374,499	3,128,798	2,500,888	2,454,021
Unrealized Gains	5,409,687	14,007,961	13,156,682	8,483,508
Interest Due and Accrued - Current Year	<u>143,152</u>	<u>88,288</u>	<u>80,173</u>	<u>106,761</u>
Sub Total	<u>9,927,339</u>	<u>17,225,047</u>	<u>15,737,743</u>	<u>11,044,291</u>
Less:				
Paid Accrued Interest on Fixed Income Securities	(90,534)	(100,327)	(73,248)	(38,498)
Realized Loss	(793,380)	(381,644)	(1,100,177)	(2,133,365)
Unrealized Loss	(18,841,229)	(620,207)	(6,738,889)	(11,744,587)
Interest Due and Accrued - Prior Year	<u>(88,288)</u>	<u>(80,173)</u>	<u>(106,761)</u>	<u>(98,575)</u>
Additional Adjustments:				
Miscellaneous Investment Expenses	(5,752)	<u>0</u>	<u>0</u>	<u>0</u>
Sub Total	<u>(19,819,184)</u>	<u>(1,182,350)</u>	<u>(8,019,075)</u>	<u>(14,015,025)</u>
Net Investment Income	<u>(7,345,796)</u>	<u>18,346,308</u>	<u>10,123,856</u>	<u>(484,540)</u>
Income Required:				
Annuity Savings Fund	43,252	37,508	35,416	27,360
Annuity Reserve Fund	255,367	260,616	260,388	256,045
Military Service Fund	16	13	13	12
Expense Fund	<u>602,145</u>	<u>551,999</u>	<u>458,387</u>	<u>493,441</u>
Total Income Required	<u>900,780</u>	<u>850,136</u>	<u>754,204</u>	<u>776,857</u>
Net Investment Income	<u>(7,345,796)</u>	<u>18,346,308</u>	<u>10,123,856</u>	<u>(484,540)</u>
Less: Total Income Required	<u>900,780</u>	<u>850,136</u>	<u>754,204</u>	<u>776,857</u>
Excess Income (Loss) To The Pension Reserve Fund	<u>(\$8,246,576)</u>	<u>\$17,496,172</u>	<u>\$9,369,652</u>	<u>(\$1,261,397)</u>

SUPPLEMENTARY INFORMATION

SCHEDULE OF ALLOCATION OF INVESTMENTS OWNED

(percentages by category)

AS OF DECEMBER 31, 2018		
	MARKET VALUE	PERCENTAGE OF TOTAL ASSETS
Cash	\$4,176,236	3.9%
Fixed Income Securities	19,933,664	18.5%
Equities	22,741,468	21.1%
Pooled Domestic Equity Funds	10,034,799	9.3%
Pooled International Equity Funds	19,348,713	18.0%
Pooled Domestic Fixed Income Funds	3,274,153	3.0%
Pooled Alternative Investment Funds	15,032,328	14.0%
Pooled Real Estate Funds	6,858,767	6.4%
Hedge Funds	<u>6,194,661</u>	<u>5.8%</u>
Grand Total	<u>\$107,594,789</u>	<u>100.0%</u>

For the year ending December 31, 2018, the rate of return for the investments of the Danvers Retirement System was -6.30%. For the five-year period ending December 31, 2018, the rate of return for the investments of the Danvers Retirement System averaged 4.01%. For the 34-year period ending December 31, 2018, since PERAC began evaluating the returns of the retirement systems, the rate of return on the investments of the Danvers Retirement System was 7.76%.

The composite rate of return for all retirement systems for the year ending December 31, 2018 was -2.25%. For the five-year period ending December 31, 2018, the composite rate of return for the investments of all retirement systems averaged 6.22%. For the 34-year period ending December 31, 2018, since PERAC began evaluating the returns of the retirement systems, the composite rate of return on the investments of all retirement systems averaged 9.00%.

SUPPLEMENTARY INFORMATION (Continued)

SUMMARY OF PLAN PROVISIONS

The plan is a contributory defined benefit plan covering all Danvers Retirement System member unit employees deemed eligible by the retirement board, with the exception of school department employees who serve in a teaching capacity. The Teachers' Retirement Board administers the pensions of such school employees.

ADMINISTRATION

There are 104 contributory retirement systems for public employees in Massachusetts. Each system is governed by a retirement board and all boards, although operating independently, are governed by Chapter 32 of the Massachusetts General Laws. This law in general provides uniform benefits, uniform contribution requirements and a uniform accounting and funds structure for all systems.

PARTICIPATION

Participation is mandatory for all full-time employees. Eligibility with respect to part-time, provisional, temporary, seasonal or intermittent employment is governed by regulations promulgated by the retirement board, and approved by PERAC. Membership is optional for certain elected officials.

There are 4 classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the State Police. The other 3 classes are as follows:

Group 1:

General employees, including clerical, administrative, technical and all other employees not otherwise classified.

Group 2:

Certain specified hazardous duty positions.

Group 4:

Police officers, firefighters, and other specified hazardous positions.

SUPPLEMENTARY INFORMATION (Continued)

MEMBER CONTRIBUTIONS

Member contributions vary depending on the most recent date of membership:

Prior to 1975:	5% of regular compensation
1975 - 1983:	7% of regular compensation
1984 to 6/30/96:	8% of regular compensation
7/1/96 to present:	9% of regular compensation
1979 to present:	an additional 2% of regular compensation in excess of \$30,000.

In addition, members of Group 1 who join the system on or after April 2, 2012 will have their withholding rate reduced to 6% after achieving 30 years of creditable service.

RATE OF INTEREST

Interest on regular deductions made after January 1, 1984 is a rate established by PERAC in consultation with the Commissioner of Banks. The rate is obtained from the average rates paid on individual savings accounts by a representative sample of at least 10 financial institutions.

RETIREMENT AGE

The mandatory retirement age for some Group 2 and Group 4 employees is age 65. Most Group 2 and Group 4 members may remain in service after reaching age 65. Group 4 members who are employed in certain public safety positions are required to retire at age 65. There is no mandatory retirement age for employees in Group 1.

SUPERANNUATION RETIREMENT

A person who became a member before April 2, 2012 is eligible for a superannuation retirement allowance (service retirement) upon meeting the following conditions:

- completion of 20 years of service, or
- attainment of age 55 if hired prior to 1978, or if classified in Group 4, or
- attainment of age 55 with 10 years of service, if hired after 1978, and if classified in Group 1 or 2.

A person who became a member on or after April 2, 2012 is eligible for a superannuation retirement allowance (service retirement) upon meeting the following conditions:

- attainment of age 60 with 10 years of service if classified in Group 1, or
- attainment of age 55 with 10 years of service if classified in Group 2, or
- attainment of age 55 if classified in Group 4.

SUPPLEMENTARY INFORMATION (Continued)

AMOUNT OF BENEFIT

A member's annual allowance is determined by multiplying average salary by a benefit rate related to the member's age and job classification at retirement, and the resulting product by his creditable service. The amount determined by the benefit formula cannot exceed 80% of the member's highest three year (or five year as discussed below) average salary. For veterans as defined in G.L. c. 32, s. 1, there is an additional benefit of \$15 per year for each year of creditable service, up to a maximum of \$300.

For employees who become members after January 1, 2011, regular compensation is limited to 64% of the federal limit found in 26 U.S.C. 401(a)(17). In addition, regular compensation will be limited to prohibit "spiking" of a member's salary to increase the retirement benefit.

- For persons who became members prior to April 2, 2012, Average Salary is the average annual rate of regular compensation received during the 3 consecutive years that produce the highest average, or, if greater, during the last 3 years (whether or not consecutive) preceding retirement.
- For persons who became members on or after April 2, 2012, Average Salary is the average annual rate of regular compensation received during the 5 consecutive years that produce the highest average, or, if greater, during the last 5 years (whether or not consecutive) preceding retirement.
- The Benefit Rate varies with the member's retirement age. For persons who became members prior to April 2, 2012 the highest rate of 2.5% applies to Group 1 employees who retire at or after age 65, Group 2 employees who retire at or after age 60, and to Group 4 employees who retire at or after age 55. A .1% reduction is applied for each year of age under the maximum age for the member's group. For Group 2 employees who terminate from service under age 55, the benefit rate for a Group 1 employee shall be used.
- For persons who became members on or after April 2, 2012 and retire with less than 30 years of creditable service, the highest rate of 2.5% applies to Group 1 employees who retire at or after age 67, Group 2 employees who retire at or after age 62, and to Group 4 employees who retire at or after age 57. A .15% reduction is applied for each year of age under the maximum age for the member's group.
- For persons who became members on or after April 2, 2012 and retire with more than 30 years of creditable service, the highest rate of 2.5% applies to Group 1 employees who retire at or after age 67, Group 2 employees who retire at or after age 62, and to Group 4 employees who retire at or after age 57. A .125% reduction is applied for each year of age under the maximum age for the member's group.

DEFERRED VESTED BENEFIT

A participant who has attained the requisite years of creditable service can elect to defer his or her retirement until a later date. Certain public safety employees cannot defer beyond age 65. All participants must begin to receive a retirement allowance or withdraw their accumulated deductions no later than April 15 of the calendar year following the year they reach age 72.

SUPPLEMENTARY INFORMATION (Continued)

WITHDRAWAL OF CONTRIBUTIONS

Member contributions may be withdrawn upon termination of employment. The interest rate for employees who first become members on or after January 1, 1984 who voluntarily withdraw their contributions with less than 10 years of service will be 3%. Interest payable on all other withdrawals will be set at regular interest.

DISABILITY RETIREMENT

The Massachusetts Retirement Plan provides 2 types of disability retirement benefits:

ORDINARY DISABILITY

Eligibility: Non-veterans who become totally and permanently disabled by reason of a non-job related condition with at least 10 years of creditable service (or 15 years creditable service in systems in which the local option contained in G.L. c. 32, s. 6(1) has not been adopted).

Veterans with ten years of creditable service who become totally and permanently disabled by reason of a non-job related condition prior to reaching “maximum age”. “Maximum age” applies only to those employees classified in Group 4 who are subject to mandatory retirement.

Retirement Allowance: For persons who became members prior to April 2, 2012, the benefit is equal to the accrued superannuation retirement benefit as if the member was age 55. If the member is a veteran, the benefit is 50% of the member’s final rate of salary during the preceding 12 months, plus an annuity based upon accumulated member contributions plus credited interest. If the member is over age 55, he or she will receive not less than the superannuation allowance to which he or she is entitled.

For persons in Group 1 who became members on or after April 2, 2012, the benefit is equal to the accrued superannuation retirement benefit as if the member was age 60. If the member is a veteran, the benefit is 50% of the member’s final rate of salary during the preceding 12 months, plus an annuity based upon accumulated member contributions plus credited interest. If the member is over age 60, he or she will receive not less than the superannuation allowance to which he or she would have been entitled had they retired for superannuation.

For persons in Group 2 and Group 4 who became members on or after April 2, 2012, the benefit is equal to the accrued superannuation retirement benefit as if the member was age 55. If the member is a veteran, the benefit is 50% of the member’s final rate of salary during the preceding 12 months, plus an annuity based upon accumulated member contributions plus credited interest. If the member is over age 55, he or she will receive not less than the superannuation allowance to which he or she would have been entitled had they retired for superannuation.

SUPPLEMENTARY INFORMATION (Continued)

ACCIDENTAL DISABILITY

Eligibility: Applies to members who become permanently and totally unable to perform the essential duties of the position as a result of a personal injury sustained or hazard undergone while in the performance of duties. There are no minimum age or service requirements.

Retirement Allowance: 72% of salary plus an annuity based on accumulated member contributions, with interest. This amount is not to exceed 100% of pay. For those who became members in service after January 1, 1988 or who have not been members in service continually since that date, the amount is limited to 75% of pay. There is an additional pension of \$924.60 per year (or \$312 per year in systems in which the local option contained in G.L. c. 32, s. 7(2)(a)(iii) has not been adopted), per child who is under 18 at the time of the member's retirement, with no age limitation if the child is mentally or physically incapacitated from earning. The additional pension may continue up to age 22 for any child who is a full time student at an accredited educational institution. For systems that have adopted Chapter 157 of the Acts of 2005, veterans as defined in G.L. c. 32, s. 1 receive an additional benefit of \$15 per year for each year of creditable service, up to a maximum of \$300.

ACCIDENTAL DEATH

Eligibility: Applies to members who die as a result of a work-related injury or if the member was retired for accidental disability and the death was the natural and proximate result of the injury or hazard undergone on account of which such member was retired.

Allowance: An immediate payment to a named beneficiary equal to the accumulated deductions at the time of death, plus a pension equal to 72% of current salary and payable to the surviving spouse, dependent children or the dependent parent, plus a supplement of \$924.60 per year, per child (or \$312 per year in systems in which the local option contained in G.L. c. 32, s. 9(2)(d)(ii) has not been adopted), payable to the spouse or legal guardian until all dependent children reach age 18 or 22 if a full time student, unless mentally or physically incapacitated.

The surviving spouse of a member of a police or fire department or any corrections officer who, under specific and limited circumstances detailed in the statute, suffers an accident and is killed or sustains injuries while in the performance of his duties that results in his death, may receive a pension equal to the maximum salary for the position held by the member upon his death. In addition, an eligible family member may receive a one-time payment of \$300,000 from the State Retirement Board. This lump sum payment is also available to the family of a public prosecutor in certain, limited circumstances.

SUPPLEMENTARY INFORMATION (Continued)

DEATH AFTER ACCIDENTAL DISABILITY RETIREMENT

Effective November 7, 1996, Accidental Disability retirees were allowed to select Option C at retirement and provide a benefit for an eligible survivor. For Accidental Disability retirees prior to November 7, 1996, who could not select Option C, if the member's death is from a cause unrelated to the condition for which the member received accidental disability benefits, a surviving spouse will receive an annual allowance of \$6,000. For Systems that accept the provisions of Section 28 of Chapter 131 of the Acts of 2010, the amount of this benefit is \$9,000. For Systems that accept the provisions of Section 63 of Chapter 139 of the Acts of 2012, the amount of this benefit is \$12,000.

DEATH IN ACTIVE SERVICE (OPTION D)

Allowance: An immediate allowance equal to that which would have been payable had the member retired and selected Option C on the day before his or her death. For a member who became a member prior to April 2, 2012 whose death occurred prior to the member's superannuation retirement age, the age 55 benefit rate is used. For a member classified in Group 1 who became a member on or after April 2, 2012 whose death occurred prior to the member's superannuation retirement age, the age 60 benefit rate is used. If the member died after age 60, the actual age is used. For a member classified in Group 2 or Group 4, whose death occurred prior to the member's minimum superannuation retirement age, the benefit shall be calculated using an age 55 age factor. The minimum annual allowance payable to the surviving spouse of a member in service who dies with at least two years of creditable service is \$3,000 unless the retirement system has accepted the local option increasing this minimum annual allowance to \$6,000, provided that the member and the spouse were married for at least one year and living together on the member's date of death.

The surviving spouse of such a member in service receives an additional allowance equal to the sum of \$1,440 per year for the first child and \$1,080 per year for each additional child until all dependent children reach age 18 or 22 if a full time student, unless mentally or physically incapacitated.

COST OF LIVING

If a system has accepted Chapter 17 of the Acts of 1997, and the Retirement Board votes to pay a cost of living increase (COLA) for that year, the percentage is determined based on the increase in the Consumer Price Index used for indexing Social Security benefits, but cannot exceed 3.0%. Section 51 of Chapter 127 of the Acts of 1999, if accepted, allows boards to grant COLA increases greater than that determined by CPI but not to exceed 3.0%. Only a certain portion of a retiree's total allowance is subject to a COLA. The total COLA for periods from 1981 through 1996 is paid for by the Commonwealth of Massachusetts.

Under the provisions of Chapter 32, Section 103(j) inserted by Section 19 of Chapter 188 of the Acts of 2010, systems may increase the maximum base on which the COLA is calculated in multiples of \$1,000. For many years the COLA base was calculated based upon the first \$12,000 of a retiree's allowance. Now the maximum base upon which the COLA is calculated varies from system to system. Each increase in the base must be accepted by a majority vote of the Retirement Board and approved by the legislative body.

SUPPLEMENTARY INFORMATION (Continued)

METHODS OF PAYMENT

A member may elect to receive his or her retirement allowance in one of 3 forms of payment.

Option A: Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the member's death.

Option B: A reduced annual allowance, payable in monthly installments, commencing at retirement and terminating at the death of the member, provided, however, that if the total amount of the annuity portion received by the member is less than the amount of his or her accumulated deductions, including interest, the difference or balance of his accumulated deductions will be paid in a lump sum to the retiree's beneficiary or beneficiaries of choice.

Option C: A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member's designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or "pops up" to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable "pops up" to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

ALLOCATION OF PENSION COSTS

If a member's total creditable service was partly earned by employment in more than one retirement system, the cost of the "pension portion" is allocated between the different systems pro rata based on the member's service within each retirement system. In certain circumstances, if a member received regular compensation concurrently from two or more systems on or after January 1, 2010, and was not vested in both systems as of January 1, 2010, such a pro-ration may not be undertaken. This is because such a person may receive a separate retirement allowance from each system.

SUPPLEMENTARY INFORMATION (Continued)

SIGNIFICANT ACCOUNTING POLICIES

The accounting records of the System are maintained on a calendar year basis in accordance with the standards and procedures established by the Public Employee Retirement Administration Commission.

Cash accounts are considered to be funds on deposit with banks and are available upon demand.

Short Term Investments are highly liquid investments that will mature within twelve months from the date of acquisition.

Investments are reported at their fair value. Securities traded on recognized exchanges are valued at the most recent sales price at year end. If no sale was reported, the mean of the bid and asked price is used when available, or the most recent bid price. Mutual, commingled and pooled funds are valued based on the net asset or unit value at year end. Real estate and alternative investments are valued based on estimates provided by the managers of those respective investments. Purchases and sales of securities are reflected on the date the trade is initiated. Realized gain or loss is largely based on the difference between the cost or the value at the prior year end and the funds realized upon liquidation. Dividend income is generally recorded when received. Interest income is recorded as earned on an accrual basis. Income from alternative investments is recorded as reported by the managing partner. Appreciation or depreciation in the value of investments consists of the unrealized gains and losses reported as the difference between the previous period and the current value.

The system makes estimates and assumptions that affect the reported values of assets and liabilities and the reported amounts added and deducted during the reporting periods. The fair value of real estate and alternative investment holdings are generally estimated in the absence of reliable exchange values. The actual funds realized upon liquidation may differ from these estimates.

The provisions of Massachusetts General Laws Chapter 32, § 23(2) generally govern the investment practices of the system. The Board retains an investment consultant to closely monitor the implementation and performance of their investment strategy and advise them of the progress toward full funding of the system. That strategy seeks to balance the exposure to common deposit and investment risks related to custody, credit concentrations, interest rate and foreign currency fluctuations.

Operating expenses include the ordinary and necessary cost of investment and professional services and the other miscellaneous administrative expenses of the system.

SUPPLEMENTARY INFORMATION (Continued)

The Annuity Savings Fund is the fund in which members' contributions are deposited. Voluntary contributions, re-deposits, and transfers to and from other systems, are also accounted for in this fund. Members' contributions to the fund earn interest at a rate determined by PERAC. Interest for some members who withdraw with less than ten years of service is transferred to the Pension Reserve Fund. Upon retirement, members' contributions and interest are transferred to the Annuity Reserve Fund. Dormant account balances must be transferred to the Pension Reserve Fund after a period of ten years of inactivity.

The Annuity Reserve Fund is the fund to which a member's account is transferred upon retirement from the Annuity Savings Fund and Special Military Service Credit Fund. The annuity portion of the retirement allowance is paid from this fund. Interest is credited monthly to this fund at the rate of 3% annually on the previous month's balance.

The Special Military Service Credit Fund contains contributions and interest for members while on a military leave for service in the Armed Forces who will receive creditable service for the period of that leave.

The Expense Fund contains amounts transferred from investment income for the purposes of administering the retirement system.

The Pension Fund contains the amounts appropriated by the governmental units as established by PERAC to pay the pension portion of each retirement allowance.

The Pension Reserve Fund contains amounts appropriated by the governmental units for the purposes of funding future retirement benefits. Any profit or loss realized on the sale or maturity of any investment or on the unrealized gain of a market valued investment as of the valuation date is credited to the Pension Reserve Fund. Additionally, any investment income in excess of the amount required to credit interest to the Annuity Savings Fund, Annuity Reserve Fund, and Special Military Service Credit Fund is credited to this Reserve account.

The Investment Income Account is credited with all income derived from interest and dividends of invested funds. At year-end the interest credited to the Annuity Savings Fund, Annuity Reserve Fund, Expense Fund, and Special Military Service Credit Fund is distributed from this account and the remaining balance is transferred to the Pension Reserve Fund.

SUPPLEMENTARY INFORMATION (Continued)

ADMINISTRATION OF THE SYSTEM

The System is administered by a five-person Board of Retirement consisting of the Town Accountant who shall be a member ex-officio, a second member appointed by the governing authority, a third and fourth member who shall be elected by the members in or retired from the service of such system, and a fifth member appointed by the other four board members.

Ex-Officio Member:	Heather Varney		
Appointed Member:	Wayne P. Marquis, Chairperson	Term Expires:	11/26/22
Elected Member:	Dana M. Hagan	Term Expires:	06/30/23
Elected Member:	Joseph L. Collins	Term Expires:	06/30/22
Appointed Member:	Stephen Swanson	Term Expires:	10/28/22

The Board members are required to meet at least once a month. The Board must keep a record of all of its proceedings. The Board must annually submit to the appropriate authority an estimate of the expenses of administration and cost of operation of the system. The board must annually file a financial statement of condition for the system with the Executive Director of PERAC.

The investment of the system's funds is the responsibility of the Board. All retirement allowances must be approved by the Retirement Board. The PERAC Actuary performs verification prior to payment, unless the system has obtained a waiver for superannuation calculations allowing them to bypass this requirement. All expenses incurred by the System must be approved by a majority vote of the Board. Payments shall be made only upon vouchers signed by two persons designated by the Board.

Retirement board members and employees are bonded by an authorized agent representing a company licensed to do business in Massachusetts. Fidelity insurance is the only required policy coverage under Ch. 32 §21 and §23 as well as 840 CMR 17.01. The policy is designed to cover specific intentional acts such as theft, fraud or embezzlement and also specify who commits such acts, most commonly employees of the system. This coverage reimburses the system for the losses it suffers as a result of its employees' actions. It does not insure the employees for their illegal acts. Statutorily required coverage is provided by the current fidelity insurance policy to a limit of \$1,000,000 with a \$10,000 deductible issued through Travelers Casualty and Surety Company. The system also has Fiduciary coverage to a limit of \$50,000,000 under a blanket policy issued through the Massachusetts Association of Contributory Retirement Systems.

BOARD REGULATIONS

The Danvers Retirement Board has adopted Supplemental Regulations which are available on the PERAC website at <https://www.mass.gov/Danvers-retirement-board-regulations>.

SUPPLEMENTARY INFORMATION (Continued)

ACTUARIAL VALUATION AND ASSUMPTIONS

The most recent actuarial valuation of the System was prepared by the KMS Actuaries, LLC as of January 1, 2020.

The actuarial liability for active members was	\$84,569,282
The actuarial liability for inactive members was	1,265,925
The actuarial liability for retired members was	<u>121,951,515</u>
The total actuarial liability was	\$207,786,722
System assets as of that date were (actuarial value)	<u>125,251,330</u>
The unfunded actuarial liability was	<u>\$82,535,392</u>
The ratio of system's assets to total actuarial liability was	60.3%
As of that date the total covered employee payroll was	\$30,406,703

The normal cost for employees on that date was 9.4% of payroll

The normal cost for the employer including administrative expenses was 6.2% of payroll

The principal actuarial assumptions used in the valuation are as follows:

Investment Return: 7.50% per annum
 Rate of Salary Increase: Varies by group and service

SCHEDULE OF FUNDING PROGRESS AS OF JANUARY 1, 2020

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a % of Cov. Payroll ((b-a)/c)
1/1/2020	\$125,251,330	\$207,786,722	\$82,535,392	60.3%	\$30,406,703	271.4%
1/1/2018	\$113,315,313	\$193,531,449	\$80,216,136	58.6%	\$29,364,564	273.2%
1/1/2016	\$96,511,828	\$175,743,235	\$79,231,407	54.9%	\$25,659,909	308.8%
1/1/2014	\$89,955,182	\$162,199,777	\$72,244,595	55.5%	\$24,485,565	295.0%
1/1/2012	\$83,875,000	\$143,155,000	\$59,280,000	58.6%	\$22,911,000	258.7%

SUPPLEMENTARY INFORMATION (Continued)

MEMBERSHIP EXHIBIT

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Retirement in Past Years										
Superannuation	7	12	18	20	12	12	19	18	12	16
Ordinary Disability	0	1	1	1	0	0	0	0	0	0
Accidental Disability	1	0	2	3	3	2	0	1	0	0
Total Retirements	8	13	21	24	15	14	19	19	12	16
Total Retirees, Beneficiaries and Survivors	384	381	386	392	396	405	407	408	407	415
Total Active Members	454	455	452	462	479	476	470	485	497	500
Pension Payments										
Superannuation	\$4,268,150	\$4,364,976	\$4,256,009	\$4,811,799	\$5,111,024	\$6,968,968	\$7,417,393	\$7,869,725	\$8,116,299	\$8,430,224
Survivor/Beneficiary Payments	221,991	226,026	255,264	315,614	329,582	341,045	344,665	355,541	377,119	401,442
Ordinary Disability	51,537	48,479	32,679	45,206	61,379	57,736	59,072	60,460	61,901	63,350
Accidental Disability	698,047	691,151	665,065	666,734	714,703	799,297	850,089	848,016	901,939	880,047
Other	<u>1,780,697</u>	<u>1,895,487</u>	<u>2,392,806</u>	<u>2,136,180</u>	<u>2,291,347</u>	<u>886,956</u>	<u>945,551</u>	<u>942,528</u>	<u>999,991</u>	<u>1,073,300</u>
Total Payments for Year	<u>\$7,020,422</u>	<u>\$7,226,119</u>	<u>\$7,601,823</u>	<u>\$7,975,533</u>	<u>\$8,508,035</u>	<u>\$9,054,002</u>	<u>\$9,616,771</u>	<u>\$10,076,269</u>	<u>\$10,457,248</u>	<u>\$10,848,364</u>



COMMONWEALTH OF MASSACHUSETTS

Public Employee Retirement Administration Commission

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