

Commonwealth of Massachusetts
Public Employee Retirement Administration Commision

Annual Statement





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Commonwealth of Massachusetts Public Employee Retirement Administration Commission

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Instructions to Retirement Systems & Pension Funds

(Henceforth called Systems)

- (1) Date of Filing: The statement is required by law to be filed on or before May 1st.
- (2) The Name of the System must be typed or stamped at the top of all pages and schedules (and duplicate schedules), and on all inserted schedules and loose sheets.
- (3) This statement must be typewritten or prepared legibly using electronic media.
- (4) Blank Schedules will not be accepted. If no entries are to be made, type "NONE" across the schedule in question.
- (5) Each category of investment must be grouped alphabetically on appropriate schedules as listed below. Group totals in each category must be shown (sub-totals should be identified as such). Investments must be listed on a trade date basis (as opposed to the cashbook, which is on a settlement date basis). Purchases made prior to January 1st, but not settled until after December 31st, should be recorded as accounts payable and, as such, should be recorded as accounts receivable and, as such, should be listed as sold and no longer owned. *

Schedule 1

Cash

Schedule 2

Short Term Securities (Treasury Bills, Commercial Paper, Repurchase Agreements, CDs, Term Deposits, Money Market Accounts, Cooperative Shares, and Savings and Loan Shares).

Schedule 3 (A, B, and C)

Fixed Income Securities

Schedule 4 (A, B, and C)

(a) Stocks

(b) Options

Schedule 5

Pooled Funds, PRIT Fund, Mutual or Commingled Funds, International Investments, Alternative Investments, and Real Estate Investments

Schedule 6

Recap of Schedules 1 through 5

Schedule 7

Recap of all investment-related management, custodial and consultant fees

Supplementary Schedule

We are now requesting that you provide us with a supplemental schedule for Members' Balances in the Annuity Savings Account. Previously, there was some confusion as to whether this information was required. **It is required.**

(6) If the Annual Statement and Schedules do not contain the information asked for in the blanks, or are not prepared as requested above, they will NOT be accepted by the Commission.

Note: In accordance with the provisions of section 20(5)(h) and section 23(1)(c) and section 23(2)(e) of Chapter 32 of the General Laws, this statement must be filed in the office of the Public Employee Retirement Administration Commission no later than May 1, 2023. The due date for filing will be strictly enforced.

*It is critical that you determine the status of all pending transactions reported by your custodian on supplemental schedules provided by them. If any adjustments are required, these should be disclosed either in the details of accounts due in receivables, or payments pending in accounts payable. Otherwise, the supplemental schedules need to be notated for pending settlements. It may be necessary to revisit pending transactions from prior periods to properly reconcile these financial results.

		ber 31, 2022 of the Conditions and Affa	(Name of Retirement System)
rganized Under the Laws of	the Commonweal	th of Massachusetts to the Public Employee	Retirement Administration Commissio
Date of Certificate		Effective Date	
DMINISTRATIVE OFFICE	Ē		
treet & Number		City/Town, State and Zip Code	Telephone Number
The certification proces	ss is now compl	etely within PROSPER. Below is a sc	reen shot of the certification page
			×
Datinoment Book	and Manakan Ca	tiGaatian	<u>^</u>
Retirement Boa	ard Member Ce	ertification	
retirement system following statement referred to, are a changes in fund be said thirty-first da	n, free and clear ents, with the sch full and correct e palances, and of y of December la	erein-described assets were the absolution any liens or claims thereon, except adules and explanations therein contains the first of all the assets, liabilities, income the conditions and affairs of the said refast, and for the year ended on that dated belief, respectively.	ot as stated, and the nined, annexed, or ne and disbursements, tirement system on the
Retirement Board			
Name:	Board Memb	er21990	
		Electronic Signature box, and clicking on the mation provided herein is true and complete	
			Activ
VESTMENT MANAGERS	(Name)	(Ad	ldress)
Please compile/			
submit a complete list. Attach the list	(Name)	(Ad	ldress)
to this page.			
	(Name)	(Ad	dress)
IVESTMENT CONSULTA	NT		
	(Name)	(Ad	dress)
USTODIAN			
	(Name)	(Ad	ldress)

Annua	I Statement of the	_ Retirement System for the Year Ended December 31, 2022
ANNU	JAL STATEMENT BALANCE TESTS	
1.	ASSET BALANCE	
	Assets Previous Year	
	Income Current Year	
	Disbursements Current Year	()
	Assets Current Year	
2.	ASSET DIFFERENCE	
	Assets Current Year	
	Assets Previous Year	()
	Difference	
3.	INCOME DIFFERENCE	
	Income Current Year	
	Disbursements Current Year	()
	Difference	
4.	FUND CHANGE DIFFERENCE – Add Disbursement activities.	interfund transfer credits and debits respectively to Income and
	Total Fund Change Credits Current Year	r

NOTE: The difference as a result of tests 2, 3, and 4 should be the same.

Total Fund Change Debits Current Year

Difference

ASSETS & LIABILITIES

7.5	3213 0		2022		2021	2020	
1.	1049	Cash					
2.	1100	Individually Owned Short Term Investments					
3.	1180	Fixed Income Securities (Market Value)					
4.	1101	Pooled Short Term Funds					
5.	1170	Equities					
6.	1172	Pooled Domestic Equity Funds					
7.	1173	Pooled International Equity Funds					
8.	1174	Pooled Global Equity Funds					
9.	1181	Pooled Domestic Fixed Income Funds					
10.	1182	Pooled International Fixed Income Funds					
11.	1183	Pooled Global Fixed Income Funds					
12.	1193	Pooled Alternative Investments / Private Equity					
13.	1194	Pooled Real Estate Funds					
14.	1195	Pooled Domestic Balanced Funds					
15.	1196	Pooled International Balanced Funds					
16.	1197	Hedge Funds					
17.	1198	PRIT Cash Fund					
18.	1199	PRIT Core Fund					
19.	1350	Prepaid Expenses					
20.	1398	Accounts Receivable (A)					
21.	1550	Interest Due and Accrued					
22.	2020	Accounts Payable (A)	() () ())
		TOTAL					
FU	NDS						
1.	3293	Annuity Savings Fund					
2.	3294	Annuity Reserve Fund					
3.	3295	Special Military Service Credit Fund					
4.	3296	Pension Fund					
5.	3298	Expense Fund					
6.	3297	Pension Reserve Fund					
то	TAL AS	SETS AT MARKET VALUE					

(A) Specific details for Accounts Receivable and Accounts Payable are to be disclosed on Schedule A.

Annual Statement of the	Retirement System fo	Retirement System for the Year Ended December 31, 2022	r 31, 2022		
	Balance Dec. 31 Prior Year	Receipts	Interfund Transfers	Disbursements	Balance Dec. 31 Current Year
Annuity Savings Fund					
Annuity Reserve Fund					
Special Military Service Credit Fund					
Pension Fund					
Expense Fund					
Pension Reserve Fund					
TOTAL ALL FUNDS					
List below all transfers:					
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	·
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	j
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	Ì
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	İ
Transfer from	Fund to the	Fund in the Amount of \$_	of \$	on Account of	Ì

Annual Statement of the			nent of the	Retirement System for the Year	Ended December 31, 20)22
DIS	DISBURSEMENTS			2000	0004	0000
1.	Ann	uity S	avings Fund:	2022	2021	2020
		_	Refunds to Members			
	(b)	5756	Transfers to Other Systems			
			SUBTOTAL			
2.	Ann	uity R	eserve Fund:			
	(a)	5750	Annuities Paid			
	(b)	5759	Option B Refunds			
			SUBTOTAL			
3.	Pen	sion F	und:			
			Pensions Paid			
			Regular Pension Payments			
			Survivorship Payments			
			Ordinary Disability Payments			
			Accidental Disability Payments			
			Accidental Death Payments			
			Section 101 Benefits			
	(b)		3(8)(c) Reimbursements to Other Syste	ms		
	(c)		COLAs Paid			
	(d)	5753	Chapter 389 Beneficiary Increase Paid			
			SUBTOTAL			
4.	Ехр	ense l	Fund:			
	(a)	5118	Board Members' Stipend			
	(b)	5119	Staff Salaries			
	(c)	5120	Benefits			
	(d)	5304	Management Fees			
	(e)	5305	Custodial Fees			
	(f)	5307				
	(g)	5308	Legal Expenses			
	(h)	5309	Medical Expenses			
	(i)		Fiduciary Insurance			
	(j)	5311	Service Contracts Rent Expense			
	(k) (l)		Professional Services			
			Actuarial Services			
	(n)		Accounting Services			
	(o)		Education and Training			
	(p)		Administrative Expenses			
	(q)		Furniture and Equipment			
	(r)		Travel Expense			
	(s)	5829	Depreciation Expense: Building			
			SUBTOTAL			

TOTAL DISBURSEMENTS

Annual Statement of the	Retirement System for the Yea	r Ended December 31, 20)22
INVESTMENT INCOME	2022	2021	2020
Investment Income received from:			
(a) Cash (from Schedule 1)			
(b) Short Term Investments (from Schedule 2)			
(c) Fixed Income Securities (from Schedules 3A and	13C)		
(d) Equities (from Schedules 4A and 4C)			
(e) Pooled Funds (from Schedule 5)			
(f) Commission Recapture and Securities Litigation			
4821 TOTAL INVESTMENT INCOME			
Plus:			
4884 Realized Gains (Profits)			
4886 Unrealized Gains (Increase in Market Value)			
1550 Interest/Dividends Due and Accrued-Current	Year		
Less:			
4823 Paid Accrued Interest on Fixed Income Securi	ities		
4885 Realized Losses			
4887 Unrealized Losses (Decrease in Market Value)			
1550 Interest/Dividends Due and Accrued-Prior Yea	ar		
Additional Adjustments:			
4701 Carried Interest Expense			
4702 Equalization Expense			
4703 Miscellaneous Investment Expenses			
NET INVESTMENT INCOME			
Income Required:			
Annuity Savings Fund (from Supplementary Schedule	e)		
Annuity Reserve Fund			
Special Military Service Credit Fund			
Expense Fund			
TOTAL INCOME REQUIRED			
Net Investment Income			
Less Income Required			
EXCESS INCOME TO PENSION RESERVE FUN	D		

MEMBERSHIP FOR CURRENT YEAR

ACTIVE MEMBERS	Group 1	Group 2 & 4	TOTAL
Active Membership, Dec. 31st, Previous Year Inactive Membership, Dec. 31st, Previous Year Enrolled During Current Year			
Transfers Between Groups Reinstatements of Disabled Members SUBTOTAL			
Deduct: Death Withdrawals Retirements SUBTOTAL			
Active Membership, Dec. 31st, Current Year			
Inactive Membership, Dec. 31st, Current Year			
RETIRED MEMBERS, BENEFICIARIES & SURVIV	VORS		
Retired, Beneficiary, and Survivor Membership, Dec. 31, previous year			
Retirements During the Year:			
Superannuation			
Ordinary Disability			
Accidental Disability Termination Retirement Allowance			
Beneficiary of Deceased Retiree			
Survivor Benefits from Active Membership			
SUBTOTAL			
Deduct:			
Deaths of Retired Members			
Terminations of Survivor Benefits			
Reinstatements of Disabled Pensions			
SUBTOTAL			
Retired Membership, Dec. 31, current year			
Superannuation			
Ordinary Disability Accidental Disability			
Termination			
Beneficiaries from Accidental Deaths			
Beneficiaries from Section 100			
Beneficiaries from Section 101			
Beneficiaries under Option (C)			
Option (D) Survivor Allowance			
Section 12B Survivor Allowance			
	• • • • • • • • • • • • • • • • • • • •		
Total Retired, Beneficiary, and Survivor Membership, Dec. 31, Current Year			
TOTAL MEMBERSHIP: Active, Inactive, Retired, Beneficiary, and Survivor, Dec. 31, Current Year			

Annual Statement of the	Retirement Sy	ystem for	r the Y	ear Er	nded [December	31,	2022
Annuai Statement of the	 retifement 3	yatemi io	i tile i	eal El	iiueu L	Jecellinei	JΙ,	20

Schedule A: Detail of Accounts Receivable and Accounts Payable

	Receivable	Amount	Original Date
4891	Members' Deductions		
4892	Transfers From Other Systems		
4893	Members' Make Up Payments and Redeposits		
4900	Members' Payments from Rollovers		
4898	3(8)(c) Reimbursements from Other Systems		
4899	Received from Commonwealth for COLA and Survivor Benefits		
4894	Pension Fund Appropriation (Current Fiscal Year)		
4894	Pension Fund Appropriation (Previous Fiscal Year)		
4890	Contributions Received from Municipality on Account of Military Service		
4897	Federal Grant Reimbursement		
4895	Pension Reserve Appropriation		
	nents Sold But Funds Not Received (list individually)		
TOTA	L RECEIVABLES		
	Payable		
5757	Refunds to Members		
5756	Transfers to Other Systems		
5750	Annuities Paid		
5759	Option B Refunds		
5751	Pensions Paid		
5755	3(8)(c) Reimbursements to Other Systems		
5752	COLAs Paid		
5753	Chapter 389 Beneficiary Increase Paid		
5118	Board Members' Stipend		
5119	Staff Salaries		
5120	Benefits		
5304	Management Fees		
5305	Custodial Fees		
5307	Investment Consultant Fees		
5308	Legal Expenses		
5309	Medical Expenses		
5310	Fiduciary Insurance		
5311	Service Contracts		
5312	Rent Expense		
5315	Professional Services		
5320	Education and Training		
5589	Administrative Expenses		
5599	Furniture and Equipment		
5719	Travel Expense		
Investn	nents Purchased But Funds Not Paid (list individually)		

Cash Account Activity During Year

*Cash defined in ledger #1040 as Savings or Checking

Total Deposits this Year (B of Previous Year (A) Book Value at End Account Number, Interest Rate (List alphabetically) Type of Account, Description:

Withdrawals during Year Income Reinvested/ Redeposited into Account

Dec 31st This Year Total Book Value =A+B+C-D <u>0</u>

Cash Income Paid to or Redeposited

System Not Reinvested

December 31st Interest Due and Accrued

<u>©</u>

Short Term Securities* Bought and Sold or Matured During the Year as well as Still Held on December 31st

*Short Term defined in ledger #1100 as U.S. Treasury Bills, Commercial Paper, Repurchase Agreements, CDs, Term Deposits, Money Market, Cooperative Shares,

Savings and Loan Shares

Date Acquired € Including CUSIP or Account No., Interest Rate, Maturity Date (List alphabetically. Rolled over securities must be listed as sold and then repurchased.) Description:

Q

<u>B</u>

Commissions Including Cost

Par Value*

(Expiration or Upon Liquidation) Amount Received at Maturity Less Commissions and **Excluding Interest**

Market Value Current Year Dec. 31st

During Year Received Interest

and Accrued Interest Due Dec. 31st

E

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*Optional Entry

Domestic Fixed Income Securities Owned at End of Year (Foreign Fixed Income Securities must be listed on Schedule 5)

CUSIP Number* € Description:
Including Maturity
Date and Interest
Rate (List Alphabetically)

Cost or Market Value at End of Prior Year

Unrealized Gain

<u>⊙</u>

0

Unrealized Loss

Market Value

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(F)
Interest
Received
During Year

Interest Due and Accrued Dec. 31st

<u>©</u>

*Optional Entry

Domestic Fixed Income Securities Purchased During Year (Foreign Fixed Income Securities must be listed on Schedule 5)

€ **Description:**Including Maturity
Date and Interest Rate

<u>©</u>

<u>B</u>

Date Acquired (Trade Date)

Par Value*

CUSIP Number

(List Alphabetically)

<u>0</u>

Name of Broker

Commissions <u>Paid</u> Œ

Ē

Accrued Interest Paid

Cost Excluding
Accrued Interest, but
Including Commissions

*Optional Entry

Domestic Fixed Income Securities Sold During Year (Foreign Fixed Income Securities must be listed on Schedule 5)

(J)	Received During Year Including Interest Sold
(2)	= G-F Realized Loss
Ĵ	= G-F Realized Gain
(G) Amount Received on Sale Less	Commissions Excluding Accrued Interest
(F)	Market Value Previous <u>Dec 31st</u>
(E)	Commissions
<u>Q</u>	Name of <u>Broker</u>
(C)	Date Sold or Matured (Trade Date)
(B)	Par Value*
ર્	CUSIP
Description:	Including Date of Maturity and Interest Rate (List alphabetically)

Schedule No. 4A

Retirement System for the Year Ended December 31, 2022 Annual Statement of the

Equities Owned at End of Year Equities defined as stocks or options (Pooled Funds must be listed on Schedule 5)	of Year s or optic	ns (Poole	d Funds must be	e listed on Schedule	5)			
Description:	€	(B)	(C) Rate Per Share	(D)	(E) Net Purchases	(F)	(G)	
Give Complete Description CUSIP (List Alphabetically)	CUSIP Number	Number of Shares	Current Market Value	Market Value at End <u>of Previous Year</u>		Market Value at $= F - D - E$ End of Current Year Unrealized Gain	= F - D - E Unrealized Gain	j

Received During Dividends

Market Value at = F - D - E = F - D - EEnd of Current Year Unrealized Gain Unrealized Loss

€

Î

Year

Schedule No. 4B

Retirement System for the Year Ended December 31, 2022 Annual Statement of the

Equities Purchased During Year Equities defined as stocks or options (Pooled Funds must be listed on Schedule 5)

Name of Broker Date Acquired (Trade Date) <u>O</u> Number of Shares <u>B</u> **CUSIP Number** ₹ Description:
Give Complete
Description
(List Alphabetically)

(F)
Cost to System
Including Commissions
and Fees

Commissions and Fees Paid

Œ

<u>@</u>

page **15**

Schedule No. 4C

Annual Statement of the

page **16**

Equities Sold During Year

Equities defined as stocks or options (Pooled Funds must be listed on Schedule 5)

Retirement System for the Year Ended December 31, 2022

<u>B</u> € **Description:**

Number of Shares CUSIP Number Give Complete Description (List Alphabetically)

Q

Commissions <u>Paid</u> Date Sold

Name of Broker

Proceeds From Sale

Ē

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<u>@</u>

Cost if Purchased in Current Year Market Value at Prior Year-end or

= F-G Î

Realized Gain

Realized Loss

Dividends Received During Year

E

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Schedule No. 5

Retirement System for the Year Ended December 31, 2022 Annual Statement of the_

Schedule of Pooled FundsThis schedule is to be used for the PRIT Fund and Pooled Funds (e.g. , Venture Capital, Real Estate, Mutual Funds, Commingled Funds).

(<u>K</u>	= A+B+C+D-E+F-G-H-I-J Market Value at End of <u>Year**</u>
Ĵ	Fees Paid
Ξ	Cash Dividends Distributions to Systems this Year
(H) Total Sales/	Redemptions this Year - Amount Received
(B)	Unrealized <u>Loss*</u>
(F)	Unrealized <u>Gain*</u>
(E)	Realized <u>Loss*</u>
(D	Realized <u>Gain*</u>
()	Reinvested Investment <u>Income</u>
(B)	Total Purchases This Year at Cost
(A) Market	Value at End of Previous <u>Year</u>
Description:	Give Complete PERAC Description Ledger (List alphabetically Number by category)

 ^{*} If available.
 ** If using most recent period prior to year-end, please list date.

Schedule No. 6

Retirement System for the Year Ended December 31, 2022 Annual Statement of the

Summary of Investments Owned

	€	(B)	(C)	<u>Q</u>	(E)	Œ)	(9)	Î	Ξ
		Interest Due	Paid Accrued						Investment
	Current	and Accrued	Interest on	Commissions					Income
	Market	as of	Purchases in	Paid During	Unrealized	Unrealized	Realized	Realized	Received
Category of Investment	Value	Dec. 31, 2022	Current Year	Current Year	Gains	Losses	Gains	Losses	During Year

1100 Individually Owned Short Term Investments

 \sim

1040

1180 Fixed Income Securities

S.

1170 Equities

4.

- 5a. 1101 Pooled Short Term Funds
- 5b. 1172 Pooled Domestic Equity Funds
- 5c. 1173 Pooled International Equity Funds
- 5d. 1174 Pooled Global Equity Funds
- 1181 Pooled Domestic Fixed Income Funds

5e.

- 5f. 1182 Pooled International Fixed Income Funds
- 1183 Pooled Global Fixed Income Funds

5g.

- 5h. 1193 Pooled Alternative Investments / Private Equity
- 5i. 1194 Pooled Real Estate Funds
- 1195 Pooled Domestic Balanced Funds
- 1196 Pooled International Balanced Funds

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5

- 51. 1197 Hedge Funds
- 5m. 1198 PRIT Cash Fund
- 5n. 1199 PRIT Core Fund

TOTAL

Annual Statement of the	Re	tirement Sy	stem for th	e Year Ende	Retirement System for the Year Ended December 31, 2022	1, 2022					
Summary of Investment Related Fees Manager/Vendor-All Managers/ Vendors Must Be Listed	(A) Q1 2022	(B)	(C)	(D)	(E) Accrued Payable at Year End	(F) Total Paid or Accrued in 2022	(G) Market Value as of	*Payment Method (Net, Check, Wire)	(I) #4701 Carried Interest Exp.	(J) #4702 Equalization Expense	(K) #4703 Misc Investment Expense
5304 Management Fees 1.											•
ડાં હ											
.5.											
6.											
ó											
5304 Management Fees TOTAL											
5305 Custodial Fees o											
10.											
<u>.</u>											
5305 Custodial Fees TOTAL											
5307 Investment Consultant/OCIO Fees	S										
13.											
14.											
5307 Investment Consultant/ OCIO Fees TOTAL											
TOTAL INVESTMENT RELATED FEES AND EXPENSES											

*N = NET, C = CHECK, W = WIRE

Supplementary Schedule

Retirement System for the Year Ended December 31, 2022 Annual Statement of the

Members' Balances in the Annuity Savings Account

Previous Total Additions Total Interest

Member's Name Balance Current Year Current Year Reductions

Balance Current Year

Transfer to Pension <u>Reserve Fund</u>

Transfer to Pension Fund

Transfer to Annuity Reserves