NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND Form N-Q October 30, 2007

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

## **FORM N-Q**

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY
nvestment Company Act file number 811-7484
Nuveen Massachusetts Premium Income Municipal Fund  (Exact name of registrant as specified in charter)
Nuveen Investments 333 West Wacker Drive, Chicago, Illinois 60606
(Address of principal executive offices) (Zip code)
Kevin J. McCarthy—Vice President and Secretary  333 West Wacker Drive, Chicago, Illinois 60606  (Name and address of agent for service)
Registrant's telephone number, including area code: 312-917-7700
Date of fiscal year end:5/31
Date of reporting period: 8/31/07
Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarte pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270 30b1-5). The Commission may use the information provides

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Schedule of Investments

Portfolio of Investments (Unaudited)

Nuveen Massachusetts Premium Income Municipal Fund (NMT)

August 31, 2007

on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

Amount (000) Description (1)

**Principal** 

Optiona Provision

	Consumer Discretionary [] 2.2% (1.5% of Total Investments)	
1,485	Boston Industrial Development Financing Authority, Massachusetts, Senior Revenue Bonds,	9/12 a
	Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative Minimum Tax)	
	Consumer Staples [] 0.8% (0.6% of Total Investments)	
550	Guam Economic Development Authority, Tobacco Settlement Asset-Backed Bonds, Series 2001B, 5.500%, 5/15/41	5/11 a
	Education and Civic Organizations [] 24.2% (16.3% of Total Investments)	
750	Massachusetts Development Finance Agency, Revenue Bonds, Western New England College, Series 2005A, 5.000%, 9/01/33 🛘 AGC Insured	9/15 a
1,045	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytecnic Institute, Series 2007, 5.000%, 9/01/37 [] MBIA Insured	9/17 a
890	Massachusetts Development Finance Authority, Revenue Bonds, Curry College, Series 2000A, 6.000%, 3/01/20   ACA Insured	3/09 8
1,000		7/13
1,745	Massachusetts Development Finance Authority, Revenue Bonds, Massachusetts College of Pharmacy and Allied Health Sciences, Series 2005D, 5.000%, 7/01/27 🛮 AGC Insured	7/15
750	Massachusetts Development Finance Authority, Revenue Bonds, Milton Academy, Series 2003A, 5.000%, 9/01/19	9/13
1,090	Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston University, Series 1999P, 6.000%, 5/15/29	No
40	Massachusetts Education Loan Authority, Student Loan Revenue Bonds, Issue E, Series 1995, 6.150%, 7/01/10   AMBAC Insured (Alternative Minimum Tax)	1/08
1,550	Massachusetts Educational Finance Authority, Educational Loan Revenue Bonds, Series 2002E, 5.000%, 1/01/13   AMBAC Insured (Alternative Minimum Tax)	1/12
2,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Boston College, Series 2003N, 5.250%, 6/01/18	6/13
500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Wellesley College, Series 2003H, 5.000%, 7/01/26	7/13
555	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2003H, 5.000%, 7/01/21	7/13
1,380	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2007L, 5.000%, 7/01/31	7/16
500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Worcester State College, Series 2002, 5.000%, 11/01/32 [] AMBAC Insured	11/12
1,645	Massachusetts Industrial Finance Agency, Revenue Bonds, Whitehead Institute for Biomedical Research, Series 1993, 5.125%, 7/01/26	1/08
375	Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Financing Authority, Higher Education Revenue Bonds, Ana G. Mendez University System, Series 1999, 5.375%, 2/01/19	2/09

## Health Care [] 21.6% (14.6% of Total Investments)

1,250 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Berkshire Health System, Series 2001E, 6.250%, 10/01/31

10/11 at 1

	Housing/Single Family  ☐ 3.4% (2.3% of Total Investments)	
5,4	25 Total Housing/Multifamily	
1,0	Somerville Housing Authority, Massachusetts, GNMA Collateralized Mortgage Revenue Bonds, Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22	5/12 at 1
3	Massachusetts Housing Finance Agency, Rental Housing Mortgage Revenue Bonds, Series 1999D, 5.500%, 7/01/13   AMBAC Insured (Alternative Minimum Tax)	7/10 at 1
5	Massachusetts Housing Finance Agency, Housing Revenue Bonds, Series 2003S, 5.050%, 12/01/23 (Alternative Minimum Tax)	6/13 at 1
3	Massachusetts Housing Finance Agency, Housing Bonds, Series 2006A, 5.100%, 12/01/37 (Alternative Minimum Tax)	6/15 at 1
1,8	Massachusetts Development Financing Authority, Assisted Living Revenue Bonds, Prospect House Apartments, Series 1999, 7.000%, 12/01/31	12/09 at 1
1,3	Housing/Multifamily ☐ 8.1% (5.4% of Total Investments)  Massachusetts Development Finance Authority, Multifamily Housing Revenue Bonds, Emerson Manor Project, Series 2007, 4.800%, 7/20/48	7/17 at 1
14,7	65 Total Health Care	
	Inc., Series 2007G, 5.000%, 7/01/32	//I/ at .
2,0	Health Care, Series 2005D, 5.000%, 7/01/33	7/17 at 1
	Health Care, Series 2001C, 6.625%, 7/01/32  45 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial	7/15 at 1
3	System Inc., Series 2001C, 5.750%, 7/01/32  75 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial	7/11 at :
	75 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare	7/11 at :
6	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, New England Medical Center Hospitals, Series 2002H, 5.375%, 5/15/19 [] FGIC Insured	5/12 at 1
1,5	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, New England Medical Center Hospitals, Series 1993G-1, 5.375%, 7/01/24 [] MBIA Insured	1/08 at
1,0	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milton Hospital Project, Series 2005D, 5.250%, 7/01/30	7/15 at 1
5	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milford Regional Medical Center, Series 2007E, 5.000%, 7/15/32	7/17 at
2,0	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Medical Center, Series 2007D, 5.250%, 8/15/28	8/17 at
1,0	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Clinic Medical Center, Series 2005C, 5.000%, 8/15/21 [] FGIC Insured	8/15 at
9	35 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Emerson Hospital, Series 2005E, 5.000%, 8/15/35   RAAI Insured	8/15 at
1,0	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caritas Christi Obligated Group, Series 2002B, 6.250%, 7/01/22	7/12 at
1,0	00 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Cape Cod Health Care Inc., Series 2001C, 5.250%, 11/15/31   RAAI Insured	11/11 at
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990 Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-122,

4.875%, 12/01/37 (Alternative Minimum Tax)

6/15 at 1

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1,500	Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-126, 4.625%, 6/01/32 (Alternative Minimum Tax)	6/16 at 1
2,490	Total Housing/Single Family	
	Industrials [] 1.2% (0.9% of Total Investments)	
380	Massachusetts Development Finance Agency, Pioneer Valley Resource Recovery Revenue Bonds, Eco/Springfield LLC, Series 2006, 5.875%, 7/01/14 (Alternative Minimum Tax)	No Op
400	Massachusetts Development Finance Agency, Solid Waste Disposal Revenue Bonds, Waste Management Inc., Series 2003, 5.450%, 6/01/14	No Op
780	Total Industrials	
	Long-Term Care [] 6.7% (4.5% of Total Investments)	
1,270	Boston, Massachusetts, FHA-Insured Mortgage Revenue Bonds, Deutsches Altenheim Inc., Series 1998A, 6.125%, 10/01/31	10/08 at 1
985	Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.250%, 10/01/26	10/12 at 1
1,500		3/12 at 1
	Revenue Bonds, Arbors at Chicopee, Series 2001A, 6.250%, 9/20/42 (Alternative Minimum Tax)	
250	Massachusetts Industrial Finance Agency, FHA-Insured Project Revenue Bonds, Heights Crossing	2/08 at 1
	LP, Series 1995, 6.000%, 2/01/15 (Alternative Minimum Tax)	
400	Massachusetts Industrial Finance Agency, First Mortgage Revenue Bonds, Berkshire Retirement Community, Series 1994B, 4.750%, 7/01/17	1/11 at 1
4,405	Total Long-Term Care	
	Tax Obligation/General ☐ 17.9% (12.1% of Total Investments)	
500	Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 🛘 AMBAC Insured	5/15 at 1
1,250		1/15 at 1
	Fall River, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 2/01/21 [FSA Insured	2/13 at 1
2,500	Massachusetts Bay Transportation Authority, General Obligation Transportation System Bonds, Series 1991A, 7.000%, 3/01/21	No Op
1,275	Massachusetts, General Obligation Bonds, Consolidated Loan, Series 2001D, 6.000%, 11/01/13  MBIA Insured	No Op
980		5/12 at 1
1,260	Norwell, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 11/15/20 [] FGIC Insured	No Op
1,000	Puerto Rico, General Obligation and Public Improvement Bonds, Series 2001A, 5.500%, 7/01/29  FGIC Insured	No Op
1,220	Worcester, Massachusetts, General Obligation Bonds, Series 2005A, 5.000%, 7/01/19 $\ \square$ FGIC Insured	7/15 at 1
10,985	Total Tax Obligation/General	
	Tax Obligation/Limited [] 12.0% (8.1% of Total Investments)	
210	Martha $\square$ s Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 $\square$ AMBAC Insured	5/14 at 1
385	Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds,	No Op

975	Series 2004C, 5.250%, 7/01/21  Massachusetts Bay Transportation Authority, Senior Sales Tax Revenue Bonds, Series 2006,	7/18 at 1				
	5.000%, 7/01/26					
550	Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19  MBIA Insured	5/14 at 1				
325	325 Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31  AMBAC Insured					
1,000	Massachusetts College Building Authority, Project Revenue Refunding Bonds, Series 2003B, 5.375%, 5/01/23   XLCA Insured					
1,300	Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2005A, 5.000%, 8/15/20 [] FSA Insured	8/15 at 1				
540	Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2005, 5.000%, 1/01/20  FGIC Insured	No Opi				
1,000	Massachusetts, Special Obligation Refunding Notes, Federal Highway Grant Anticipation Note Program, Series 2003A, 5.000%, 12/15/13 ☐ FSA Insured	No Opi				
240	Puerto Rico Infrastructure Financing Authority, Special Tax Revenue Bonds, Series 2005A, 0.000%, 7/01/43   AMBAC Insured	No Opt				
1,300	Puerto Rico, Highway Revenue Bonds, Highway and Transportation Authority, Series 2003AA, 5.500%, 7/01/19 [] MBIA Insured	No Opt				
7,825	Total Tax Obligation/Limited					
	Transportation ☐ 13.4% (9.0% of Total Investments)					
1,000	Massachusets Port Authority, Special Facilities Revenue Bonds, BOSFUEL Corporation, Series	7/17 at 1				
	2007, 5.000%, 7/01/32 [] FGIC Insured (Alternative Minimum Tax)					
2,000	Massachusetts Port Authority, Revenue Bonds, Series 2003A, 5.000%, 7/01/33 [] MBIA Insured	7/13 at 1				
1,700	Massachusetts Port Authority, Revenue Bonds, Series 2005A, 5.000%, 7/01/23 🛘 AMBAC Insured	7/15 at 1				
225	Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series	1/11 at 1				
	2001A, 5.000%, 1/01/27 [] AMBAC Insured (Alternative Minimum Tax)					
4,000	Massachusetts Port Authority, Special Facilities Revenue Bonds, US Airways Group Inc., Series 1996A, 5.750%, 9/01/16 [] MBIA Insured (Alternative Minimum Tax)	9/07 at 1				
8,925	Total Transportation					
	U.S. Guaranteed ☐ 22.6% (15.2% of Total Investments) (4)					
25	Massachusetts Bay Transportation Authority, Senior Sales Tax Revenue Bonds, Series 2006, 5.000%, 7/01/26 (Pre-refunded 7/01/18)	7/18 at 1				
2,500	Massachusetts Development Finance Authority, GNMA Collateralized Revenue Bonds, VOA Concord Assisted Living Inc., Series 2000A, 6.900%, 10/20/41 (Pre-refunded 10/20/11)	10/11 at 1				
500	Massachusetts Development Finance Authority, Revenue Bonds, Belmont Hills School, Series 2001, 5.375%, 9/01/23 (Pre-refunded 9/01/11)	9/11 at 1				
410	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, CareGroup Inc., Series 1998A, 5.000%, 7/01/25 (Pre-refunded 7/01/21) [] MBIA Insured	7/21 at 1				
1,925	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare System Inc., Series 2001C, 5.750%, 7/01/32 (Pre-refunded 7/01/11)	7/11 at 1				
1,500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, University of Massachusetts [] Worcester Campus, Series 2001B, 5.250%, 10/01/31 (Pre-refunded 10/01/11) [] FGIC Insured	10/11 at 1				

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Massachusetts Industrial Finance Agency, Revenue Bonds, Belmont Hill School, Series 1998, 5.250%, 9/01/28 (Pre-refunded 9/01/08)						
Massachusetts Port Authority, Revenue Bonds, Series 1982, 13.000%, 7/01/13 (ETM)	1/08 at 1					
Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2004, 5.250%, 1/01/25 (Pre-refunded 1/01/14) [] FGIC Insured	1/14 at 1					
Springfield, Massachusetts, General Obligation Bonds, Series 2003, 5.250%, 1/15/23 (Pre-refunded 1/15/13)   MBIA Insured	1/13 at 1					
University of Massachusetts Building Authority, Senior Lien Project Revenue Bonds, Series 2004-1, 5.250%, 11/01/24 (Pre-refunded 11/01/14)   AMBAC Insured	11/14 at 1					
Total U.S. Guaranteed						
Utilities [] 3.1% (2.1% of Total Investments)						
Massachusetts Development Finance Agency, Resource Recovery Revenue Bonds, SEMass System, Series 2001A, 5.625%, $1/01/16 \square$ MBIA Insured	1/12 at 1					
Massachusetts Industrial Finance Agency, Resource Recovery Revenue Refunding Bonds, Ogden Haverhill Project, Series 1998A, 5.600%, 12/01/19 (Alternative Minimum Tax)	12/08 at 1					
Total Utilities						
Water and Sewer [] 11.0% (7.4% of Total Investments)						
Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series 2004A, 5.000%, 11/01/25	11/14 at 1					
Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 10, 5.000%, 8/01/26	8/14 at 1					
Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 11, 4.500%, 8/01/29	8/15 at 1					
Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 12, 4.375%, 8/01/31	8/16 at 1					
Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 9, 5.000%, 8/01/22	8/13 at 1					
Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Series 2002A, 5.250%, 8/01/20	8/12 at 1					
Massachusetts Water Resources Authority, General Revenue Bonds, Series 2005A, 5.000%, 8/01/28  MBIA Insured	8/17 at 1					
Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/46	8/16 at 1					
Total Water and Sewer						
Total Investments (cost \$98,826,669) [] 148.2%						
Other Assets Less Liabilities [] 2.0%						
Preferred Shares, at Liquidation Value [] (50.2)%						
	Massachusetts Industrial Finance Agency, Revenue Bonds, Belmont Hill School, Series 1998, 5.250%, 9/01/28 (Pre-refunded 9/01/08)  Massachusetts Port Authority, Revenue Bonds, Series 1982, 13.000%, 7/01/13 (ETM)  Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2004, 5.250%, 1/01/25  (Pre-refunded 1/01/14) [] FGIC Insured  Springfield, Massachusetts, General Obligation Bonds, Series 2003, 5.250%, 1/15/23  (Pre-refunded 1/15/13) [] MBIA Insured  University of Massachusetts Building Authority, Senior Lien Project Revenue Bonds, Series 2004-1, 5.250%, 11/01/24 (Pre-refunded 11/01/14) [] AMBAC Insured  Total U.S. Guaranteed  Utilities [] 3.1% (2.1% of Total Investments)  Massachusetts Development Finance Agency, Resource Recovery Revenue Bonds, SEMass System, Series 2001A, 5.625%, 1/01/16 [] MBIA Insured  Massachusetts Industrial Finance Agency, Resource Recovery Revenue Refunding Bonds, Ogden Haverhill Project, Series 1998A, 5.600%, 12/01/19 (Alternative Minimum Tax)  Total Utilities  Water and Sewer [] 11.0% (7.4% of Total Investments)  Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series 2004A, 5.000%, 11/01/25  Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 10, 5.000%, 8/01/26  Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 11, 4.500%, 8/01/21  Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 20, 5.000%, 8/01/21  Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 20, 5.000%, 8/01/20  Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Series 2002A, 5.250%, 8/01/20  Massachusetts Water Pollution Abatement Trust, Revenue Bonds, Series 2005A, 5.000%, 8/01/28 []  MBIA Insured  Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/28 []  MBIA Insured  Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/28 []					

Forward Swaps outstanding at August 3	1,
2007:	

		Fund			Fixed Rate			·
Counterparty	Notional Amount	Pay/Receive Floating Rate	Floating Rate Index	Fixed Rate (Annualized)	Payment Frequency	Effective Date (5)	Termination Date	Ap (Dep
JPMorgan Royal Bank	\$1,250,000	Pay	3-Month USD-LIBOR	5.388%	Semi-Annually	4/25/08	4/25/35	
of Canada	1,700,000	Pay	SIFM	4.335	Quarterly	8/6/08	8/6/37	

USD-LIBOR (United States Dollar [] London Inter-Bank Offered Rate)
SIFM [] The daily arithmetic average of the weekly SIFM (Securities Industry and Financial Markets)
Municipal Swap Index.

The Fund may invest in <code>[]</code>zero coupon<code>[]</code> securities. A zero coupon security does not pay a regular interest coupon to its holders during the life of the security. Tax-exempt income to the holder of the security comes from accretion of the difference between the original purchase price of the security at issuance and the par value of the security at maturity and is effectively paid at maturity. Such securities are included in the Portfolio of Investments with a 0.000% coupon rate in their description. The market prices of zero coupon securities generally are more volatile than the market prices of securities that pay interest periodically.

- (1) All percentages shown in the Portfolio of Investments are based on net assets applicable to Common shares unless otherwise noted.
- (2) Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption. There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
- (3) Ratings: Using the higher of Standard & Poor sor Moody s rating. Ratings below BBB by Standard & Poor sor Group or Baa by Moody s Investor Service, Inc. are considered to be below investment grade.
- (4) Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities which ensure the timely payment of principal and interest. Such investments are normally considered to be equivalent to AAA rated securities.
- (5) Effective date represents the date on which both the Fund and counterparty commence interest payment accruals on each forward swap contract.
- N/R Not rated.
- (ETM) Escrowed to maturity.

#### **Income Tax Information**

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to the treatment of paydown gains and losses, timing differences in recognizing taxable market discount and timing differences in recognizing certain gains and losses on investment transactions.

At August 31, 2007, the cost of investments was \$98,751,991.

Gross unrealized appreciation and gross unrealized depreciation of investments at August 31, 2007, were as follows:

Gross unrealized:	
Appreciation	\$ 2,671,441
Depreciation	(1,124,737)
Net unrealized appreciation (depreciation) of investments	\$ 1,546,704

#### Item 2. Controls and Procedures.

- a. The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act") (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934 (17 CFR 240.13a-15(b) or 240.15d-15(b)).
- b. There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act (17 CFR 270.30a-3(d)) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

#### Item 3. Exhibits.

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)), exactly as set forth below: EX-99 CERT Attached hereto.

## **SIGNATURES**

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*	behalf by the undersigned, thereunto duly authorized.
(Registrant) Nuveen Mas	sachusetts Premium Income Municipal Fund
By (Signature and Title)*	/s/ Kevin J. McCarthy Kevin J. McCarthy Vice President and Secretary
Date <u>October 30, 2007</u>	<del>_</del>
•	of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed as on behalf of the registrant and in the capacities and on the dates indicated.
By (Signature and Title)*	/s/ Gifford R. Zimmerman Gifford R. Zimmerman Chief Administrative Officer (principal executive officer)
Date <u>October 30, 2007</u>	<del>_</del>
By (Signature and Title)*	/s/ Stephen D. Foy Stephen D. Foy Vice President and Controller (principal financial officer)

**SIGNATURES** 8

Date <u>October 30, 2007</u>

SIGNATURES 9

<sup>\*</sup> Print the name and title of each signing officer under his or her signature.