

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form N-Q

April 29, 2014

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT
COMPANY

Investment Company Act file number 811-07484

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: 2/28/14

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 quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

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)
February 28, 2014

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 153.7% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 153.7% (100.0% of Total Investments)			
	Consumer Discretionary – 1.5% (1.0% of Total Investments)			
\$ 1,425	Boston Industrial Development Financing Authority, Massachusetts, Senior Revenue Bonds, Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative Minimum Tax) (4)	9/14 at 100.00	Caa3	\$ 1,029,363
	Education and Civic Organizations – 34.7% (22.6% of Total Investments)			
500	Massachusetts Development Finance Agency, Revenue Bonds, Boston College Issue, Series 2013S, 5.000%, 7/01/38	7/23 at 100.00	AA–	542,895
375	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Series 2009V-1, 5.000%, 10/01/29	10/19 at 100.00	A1	415,924
	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Tender Option Bond Trust 1163:			
995	17.464%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	1,169,593
305	17.361%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	358,451
1,000	Massachusetts Development Finance Agency, Revenue Bonds, Emerson College, Series 2010A, 5.000%, 1/01/40	1/20 at 100.00	BBB+	1,005,210
1,000	Massachusetts Development Finance Agency, Revenue Bonds, Lesley University Issue	7/21 at 100.00	AA–	1,079,780

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Series B-1 and B-2, 5.250%, 7/01/33 – AGM Insured Massachusetts Development Finance Agency, Revenue Bonds, Northeastern University, Series 2014A:					
415	5.000%, 3/01/39	3/24 at 100.00	A2		438,941
700	5.000%, 3/01/44	3/24 at 100.00	A2		733,992
1,000	Massachusetts Development Finance Agency, Revenue Bonds, Sterling and Francine Clark Art Institute, Series 2011A, 5.000%, 7/01/41	7/21 at 100.00	AA		1,053,590
2,000	Massachusetts Development Finance Agency, Revenue Bonds, The Broad Institute, Series 2011A, 5.250%, 4/01/37	4/21 at 100.00	AA–		2,130,720
1,045	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2007, 5.000%, 9/01/37 – NPFQ Insured	9/17 at 100.00	A+		1,090,186
700	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2012, 5.000%, 9/01/50	9/22 at 100.00	A+		724,766
1,500	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation, Series 2002A, 5.750%, 1/01/42 – AMBAC Insured	No Opt. Call	A		1,740,750
4,850	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation, Series 2008A, 5.000%, 1/01/42 – AGC Insured	1/18 at 100.00	AA–		4,966,203
1,090	Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston University, Series 1999P, 6.000%, 5/15/29	No Opt. Call	A1		1,312,556
955	Massachusetts Educational Financing Authority, Educational Loan Revenue, Series 2011J, 5.625%, 7/01/33 (Alternative Minimum Tax)	7/21 at 100.00	AA		994,508
1,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Springfield College, Series 2010, 5.500%, 10/15/31	10/19 at 100.00	Baa1		1,077,250
350	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Tufts University, Series 2008O, 5.375%, 8/15/38	8/18 at 100.00	Aa2		390,103
530	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Wheaton College	1/20 at 100.00	A2		546,059

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210	Issues, Series 2010F, 5.000%, 1/01/41 Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Fin	No Opt. Call	BBB	152,504
1,500	Authority, Higher Ed Rev and Rev Refunding Bonds, University of the Sacred Heart Project, Series 2012, 4.375%, 10/01/31 University of Massachusetts Building Authority, Senior Lien Project Revenue Bonds, Series	No Opt. Call	Aa2	1,618,770
22,020	2009-1, 5.000%, 5/01/39 Total Education and Civic Organizations Health Care – 34.0% (22.2% of Total Investments)			23,542,751
940	Massachusetts Development Finance Agency, Hospital Revenue Bonds, Cape Cod Healthcare	11/23 at 100.00	A–	979,132
895	Obligated Group, Series 2013, 5.250%, 11/15/41 Massachusetts Development Finance Agency, Revenue Bonds, Berkshire Health Systems, Series 2012G: 5.000%, 10/01/29	10/21 at 100.00	A–	941,101
700	5.000%, 10/01/31	10/21 at 100.00	A–	729,120
480	Massachusetts Development Finance Agency, Revenue Bonds, Milford Regional Medical Center	7/23 at 100.00	BBB–	500,093
1,000	Issue, Series 2014F, 5.750%, 7/15/43 Massachusetts Development Finance Agency, Revenue Bonds, Partners HealthCare System, Series	7/20 at 100.00	AA	1,076,000
300	2011K-6, 5.375%, 7/01/41 Massachusetts Development Finance Agency, Revenue Bonds, Southcoast Health System Obligated	7/23 at 100.00	A	311,784
1,575	Group Issue, Series 2013F, 5.000%, 7/01/37 Massachusetts Development Finance Agency, Revenue Bonds, The Lowell General Hospital, Series	7/23 at 100.00	BBB+	1,560,321
2,000	2013G, 5.000%, 7/01/44 Massachusetts Health and Educational Facilities Authority, Partners HealthCare System Inc.,	7/17 at 100.00	AA	2,141,080
	Series 2007G, 5.000%, 7/01/32 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caregroup Inc., Series B1 Capital Asset Program Converted June 13,2008:			

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2,300	5.375%, 2/01/26 – NPFG Insured	8/18 at 100.00	A	2,560,015
770	5.375%, 2/01/28 – NPFG Insured	8/18 at 100.00	A	847,516
1,500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caregroup Inc., Series B2, Capital Asset Program, Converted June 9, 2009, 5.375%, 2/01/27 – NPFG Insured	8/18 at 100.00	A	1,664,940
1,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Children’s Hospital, Series 2009M, 5.500%, 12/01/39	12/19 at 100.00	AA	1,112,080
1,500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Dana-Farber Cancer Institute, Series 2008K, 5.000%, 12/01/37	12/18 at 100.00	A1	1,546,605
935	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Emerson Hospital, Series 2005E, 5.000%, 8/15/35 – RAAI Insured	8/15 at 100.00	N/R	833,291
1,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Clinic Medical Center, Series 2005C, 5.000%, 8/15/21 – FGIC Insured	8/15 at 100.00	A+	1,056,910
2,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Medical Center, Series 2007D, 5.250%, 8/15/28	8/17 at 100.00	A+	2,179,940
620	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milford Regional Medical Center, Series 2007E, 5.000%, 7/15/32	7/17 at 100.00	BBB–	609,001
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