

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND
Form N-Q
October 30, 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: 8/31/14

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)
August 31, 2014

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 151.8% (100.0% OF TOTAL INVESTMENTS)			
	MUNICIPAL BONDS – 151.8% (100.0% OF TOTAL INVESTMENTS)			
	Consumer Discretionary – 1.0% (0.7% of Total Investments)			
\$ 1,905	Boston Industrial Development Financing Authority, Massachusetts, Senior Revenue Bonds, Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative Minimum Tax) (8)	9/14 at 100.00	Caa3	\$ 1,447,229
	Education and Civic Organizations – 35.7% (23.5% of Total Investments)			
	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Tender Option Bond Trust 1163:			
1,880	17.307%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	2,650,142
575	17.206%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	810,261
2,150	Massachusetts Development Finance Agency Revenue Bonds, Lesley University Issue Series B-1 and B-2, 5.250%, 7/01/33 – AGM Insured	7/21 at 100.00	AA	2,443,454
2,200	Massachusetts Development Finance Agency, Revenue Bonds, Boston College Issue, Series 2013S, 5.000%, 7/01/38	7/23 at 100.00	AA–	2,494,536
1,135	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Series 2005T-1, 5.000%, 10/01/39 – AMBAC Insured	10/15 at 100.00	A1	1,178,232
750	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Series	10/19 at 100.00	A1	864,818

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form N-Q

110	2009V-1, 5.000%, 10/01/29 Massachusetts Development Finance Agency, Revenue Bonds, Draper Laboratory, Series 2008, 5.875%, 9/01/30	9/18 at 100.00	Aa3	126,688
1,400	Massachusetts Development Finance Agency, Revenue Bonds, Emerson College, Series 2010A, 5.000%, 1/01/40	1/20 at 100.00	BBB+	1,477,994
550	Massachusetts Development Finance Agency, Revenue Bonds, Northeastern University, Series 2012, 5.000%, 10/01/31	No Opt. Call	A2	618,591
875	Massachusetts Development Finance Agency, Revenue Bonds, Northeastern University, Series 2014A: 5.000%, 3/01/39	3/24 at 100.00	A2	980,726
1,400	5.000%, 3/01/44	3/24 at 100.00	A2	1,563,170
500	Massachusetts Development Finance Agency, Revenue Bonds, Simmons College, Series 2013J, 5.250%, 10/01/39	No Opt. Call	BBB+	546,620
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	1,096,540
3,000	Massachusetts Development Finance Agency, Revenue Bonds, The Broad Institute, Series 2011A, 5.250%, 4/01/37	4/21 at 100.00	AA-	3,418,649
2,095	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2007, 5.000%, 9/01/37 – NPMG Insured	9/17 at 100.00	AA-	2,288,033
1,365	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2012, 5.000%, 9/01/50	9/22 at 100.00	A+	1,495,398
3,000	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation, Series 2002A, 5.750%, 1/01/42 – AMBAC Insured	No Opt. Call	A	3,748,709
9,950	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation, Series 2008A, 5.000%, 1/01/42 – AGC Insured	1/18 at 100.00	AA	10,443,220
	Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston University,			

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form N-Q

	Series 1999P:			
1,090	6.000%, 5/15/29	No Opt. Call	A1	1,364,876
1,000	6.000%, 5/15/59	5/29 at 105.00	A1	1,242,590
	Massachusetts Educational Finance Authority, Educational Loan Revenue Bonds, Series			
35	2001E, 5.300%, 1/01/16 – AMBAC Insured (Alternative Minimum Tax)	1/15 at 100.00	AA	35,137
	Massachusetts Educational Financing Authority, Education Loan Revenue Bonds, Series 2008H,			
415	6.350%, 1/01/30 – AGC Insured (Alternative Minimum Tax)	1/18 at 100.00	AA	439,224
	Massachusetts Educational Financing Authority, Educational Loan Revenue, Series			
905	2011J, 5.625%, 7/01/33 (Alternative Minimum Tax)	7/21 at 100.00	AA	989,636
	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northeastern			
255	University, Series 2010A, 4.875%, 10/01/35	10/20 at 100.00	A2	275,303
	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Springfield College,			
1,500	Series 2010, 5.500%, 10/15/31	10/19 at 100.00	Baa1	1,651,095
	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Tufts University,			
350	Series 2008O, 5.375%, 8/15/38	8/18 at 100.00	Aa2	398,986
	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Wheaton College			
2,030	Issues, Series 2010F, 5.000%, 1/01/41	1/20 at 100.00	A2	2,211,584
	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College,			
75	Series 2007L, 5.000%, 7/01/31	7/16 at 100.00	AA+	79,912
	Massachusetts Health and Educational Facilities Authority, Revenue Refunding Bonds, Suffolk			
500	University Issue, Series 2009A, 5.750%, 7/01/39	7/19 at 100.00	BBB	546,510
	Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Fin			
200	Authority, Higher Ed Rev and Rev Refunding Bonds, University of the Sacred Heart Project, Series 2012, 5.000%, 10/01/42	No Opt. Call	BBB	156,378
	University of Massachusetts Building Authority, Senioe Lien Project Revenue Bonds, Series			
1,510		No Opt. Call	Aa2	1,702,827

Edgar Filing: NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND - Form N-Q

43,800	2009-1, 5.000%, 5/01/39 Total Education and Civic Organizations Health Care – 32.0% (21.1% of Total Investments)				49,339,839
1,000	Massachusetts Development Finance Agency Revenue Bonds, Children’s Hospital Issue, Series 2014P, 5.000%, 10/01/46	10/24 at 100.00	AA		1,134,280
1,410	Massachusetts Development Finance Agency, Hospital Revenue Bonds, Cape Cod Healthcare Obligated Group, Series 2013, 5.250%, 11/15/41	11/23 at 100.00	A–		1,562,943
895	Massachusetts Development Finance Agency, Revenue Bonds, Berkshire Health Systems, Series 2012G: 5.000%, 10/01/29	10/21 at 100.00	A–		978,611
700	5.000%, 10/01/31	10/21 at 100.00	A–		758,989
1,000	Massachusetts Development Finance Agency, Revenue Bonds, Covenant Health System Obligated Group, Series 2012, 5.000%, 7/01/31	7/22 at 100.00	A		1,079,240
1,080	Massachusetts Development Finance Agency, Revenue Bonds, Milford Regional Medical Center Issue, Series 2014F, 5.750%, 7/15/43	7/23 at 100.00	BBB–		1,185,300
155	Massachusetts Development Finance Agency, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012A, 6.000%, 2/15/43 (4)	No Opt. Call	D		80,516
124					