

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form N-Q

October 30, 2012

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 811-7484

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: 8/31/12

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, 2012			
Principal Amount (000)	Description (1)	Optional Call Provisions (2) Ratings (3)	Value
	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)	3/13 at 102.00	Caa3 \$ 1,116,416
	Education and Civic Organizations – 34.2% (23.5% of Total Investments)		
1,000	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– 1,150,380
375	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Series 2009V-1, 5.000%, 10/01/29	10/19 at 100.00	A 424,448
1,000	Massachusetts Development Finance Agency, Revenue Bonds, Emerson College, Series 2010A, 5.000%, 1/01/40	1/20 at 100.00	BBB+ 1,047,740
450	Massachusetts Development Finance Agency, Revenue Bonds, Merrimack College, Series 2012A, 5.250%, 7/01/42	7/22 at 100.00	BBB– 486,212
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 1,129,710
2,000	Massachusetts Development Finance Agency, Revenue Bonds, The Broad Institute, Series 2011A, 5.250%, 4/01/37	4/21 at 100.00	AA– 2,263,040
1,045	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2007, 5.000%, 9/01/37 – NCFG Insured	9/17 at 100.00	A+ 1,119,550
705	Massachusetts Development Finance Authority, Revenue Bonds, Curry College, Series 2000A, 6.000%, 3/01/20 – ACA Insured	3/13 at 100.00	BBB 706,579
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 at 100.00	AA– 1,853,207
1,500	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation, Series 2002A, 5.750%, 1/01/42 – AMBAC Insured	No Opt. Call	A 1,974,345
4,850	Massachusetts Development Finance Authority, Revenue Bonds, WGBH Educational Foundation,	1/18 at 100.00	AA– 5,172,959

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	Series 2008A, 5.000%, 1/01/42 – AGC Insured Massachusetts Development Finance Authority, Revenue Refunding	No Opt. Call	A2	1,424,772
1,090	Bonds, Boston University, Series 1999P, 6.000%, 5/15/29 Massachusetts Educational Financing Authority, Educational Loan	7/21 at 100.00	AA	1,071,020
1,000	Revenue, Series 2011J, 5.625%, 7/01/33 (Alternative Minimum Tax) Massachusetts Health and Educational Facilities Authority, Revenue	6/13 at 100.00	AA–	2,069,540
2,000	Bonds, Boston College, Series 2003N, 5.250%, 6/01/18 Massachusetts Health and Educational Facilities Authority, Revenue	10/19 at 100.00	Baa1	1,091,150
1,000	Bonds, Springfield College, Series 2010, 5.500%, 10/15/31 Massachusetts Health and Educational Facilities Authority, Revenue	8/18 at 100.00	Aa2	303,803
250	Bonds, Tufts University, Series 2008O, 5.375%, 8/15/38 Massachusetts Health and Educational Facilities Authority, Revenue	7/13 at 100.00	AA+	515,510
500	Bonds, Wellesley College, Series 2003H, 5.000%, 7/01/26 Massachusetts Health and Educational Facilities Authority, Revenue	1/20 at 100.00	A2	567,185
515	Bonds, Wheaton College Issues, Series 2010F, 5.000%, 1/01/41 Massachusetts Health and Educational Facilities Authority, Revenue	7/13 at 100.00	AA+	575,263
555	Bonds, Williams College, Series 2003H, 5.000%, 7/01/21 Massachusetts Health and Educational Facilities Authority, Revenue	11/12 at 100.00	A	501,215
500	Bonds, Worcester State College, Series 2002, 5.000%, 11/01/32 – AMBAC Insured			
23,080	Total Education and Civic Organizations Health Care – 26.2% (18.0% of Total Investments) Massachusetts Development Finance Agency, Revenue Bonds, Berkshire Health Systems, Series 2012G:			25,447,628
895	5.000%, 10/01/29	10/21 at 100.00	A3	995,347
700	5.000%, 10/01/31 Massachusetts Development Finance Agency, Revenue Bonds,	10/21 at 100.00	A3	779,639
1,000	Partners HealthCare System, Series 2011K-6, 5.375%, 7/01/41 Massachusetts Health and Educational Facilities Authority, Revenue	7/20 at 100.00	AA	1,132,930
1,000	Bonds, Cape Cod Health Care Inc., Series 2001C, 5.250%, 11/15/31 – RAAI Insured Massachusetts Health and Educational Facilities Authority, Revenue	11/12 at 100.50	BBB+	1,010,700
	Bonds, Caregroup Inc., Series B1 Capital Asset Program Converted June 13,2008:			
2,300	5.375%, 2/01/26 – NPFG Insured	8/18 at 100.00	A–	2,597,390
770	5.375%, 2/01/28 – NPFG Insured	8/18 at 100.00	A–	863,347
1,500			A–	1,688,670

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	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caregroup Inc., Series B2, Capital Asset Program, Converted June 9, 2009, 5.375%, 2/01/27 – NPMFG Insured	8/18 at 100.00		
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	1,136,290
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	894,393
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+	1,055,980
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+	2,146,180
585	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–	590,125
1,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milton Hospital Project, Series 2005D, 5.250%, 7/01/30	7/15 at 100.00	BB–	1,010,400
1,445 2,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial Health Care, Series 2005D, 5.000%, 7/01/33	7/15 at 100.00	A–	1,482,686