

NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND  
Form N-Q  
April 29, 2013

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 811-09451

Nuveen Massachusetts Dividend Advantage 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: 2/28/13

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 Dividend Advantage  
Municipal Fund (NMB)  
February 28, 2013

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Consumer Discretionary – 1.3% (0.9% of Total Investments)			
\$ 480	Boston Industrial Development Financing Authority, Massachusetts, Senior Revenue Bonds, Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative Minimum Tax) Education and Civic Organizations – 45.9% (31.4% of Total Investments)	9/13 at 101.00	Caa3	\$ 378,936
500	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–	575,095
375	Massachusetts Development Finance Agency, Revenue Bonds, Boston University, Series 2009V-1, 5.000%, 10/01/29	10/19 at 100.00	A1	423,491
110	Massachusetts Development Finance Agency, Revenue Bonds, Draper Laboratory, Series 2008, 5.875%, 9/01/30	9/18 at 100.00	Aa3	130,312
400	Massachusetts Development Finance Agency, Revenue Bonds, Emerson College, Series 2010A, 5.000%, 1/01/40	1/20 at 100.00	BBB+	428,784
300	Massachusetts Development Finance Agency, Revenue Bonds, Merrimack College, Series 2012A, 5.250%, 7/01/42	7/22 at 100.00	BBB–	333,051
1,000	Massachusetts Development Finance Agency, Revenue Bonds, The Broad Institute, Series 2011A, 5.250%, 4/01/37	4/21 at 100.00	AA–	1,136,320
450	Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic	9/17 at 100.00	A+	488,615

	Institute, Series 2007, 5.000%, 9/01/37 – NCFG Insured Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic			
200	Institute, Series 2012, 5.000%, 9/01/50 Massachusetts Development Finance Authority, Revenue Bonds, WGBH	9/22 at 100.00	A+	222,632
500	Educational Foundation, Series 2002A, 5.750%, 1/01/42 – AMBAC Insured Massachusetts Development Finance Authority, Revenue Bonds, WGBH	No Opt. Call	A	669,375
2,100	Educational Foundation, Series 2008A, 5.000%, 1/01/42 – AGC Insured Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston	1/18 at 100.00	AA–	2,236,668
1,000	University, Series 1999P, 6.000%, 5/15/59 Massachusetts Educational Finance Authority, Educational Loan Revenue Bonds, Series	5/29 at 105.00	A1	1,270,330
990	2001E, 5.300%, 1/01/16 – AMBAC Insured (Alternative Minimum Tax) Massachusetts Educational Financing Authority, Education Loan Revenue Bonds,	7/13 at 100.00	AA	992,871
515	Series 2008H, 6.350%, 1/01/30 – AGC Insured (Alternative Minimum Tax) Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Boston	1/18 at 100.00	AA	574,112
1,000	College, Series 2003N, 5.250%, 6/01/18 Massachusetts Health and Educational Facilities Authority, Revenue Bonds,	6/13 at 100.00	AA–	1,012,810
500	Springfield College, Series 2010, 5.500%, 10/15/31 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Wheaton	10/19 at 100.00	Baa1	550,460
1,500	College Issues, Series 2010F, 5.000%, 1/01/41 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams	1/20 at 100.00	A2	1,660,290
590	College, Series 2007L, 5.000%, 7/01/31 Massachusetts Health and Educational Facilities Authority, Revenue Refunding	7/16 at 100.00	AA+	658,788
500	Bonds, Suffolk University Issue, Series 2009A, 5.750%, 7/01/39	7/19 at 100.00	BBB	557,290
100		No Opt. Call	BBB	101,672

	Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Fin Authority, Higher Ed Rev and Rev Refunding Bonds, University of the Sacred Heart Project, Series 2012, 5.000%, 10/01/42			
12,630	Total Education and Civic Organizations Health Care – 28.1% (19.2% of Total Investments)			14,022,966
1,200	Massachusetts Development Finance Agency, Revenue Bonds, Partners HealthCare System, Series 2011K-6, 5.375%, 7/01/41	7/20 at 100.00	AA	1,364,052
500	Massachusetts Development Finance Agency, Revenue Bonds, UMass Memorial Health, Series 2011H, 5.500%, 7/01/31	7/21 at 100.00	A–	573,530
500	Massachusetts Health and Educational Facilities Authority Revenue Bonds, Quincy Medical Center Issue, Series 2008A, 6.500%, 1/15/38 (4)	1/18 at 100.00	N/R	2,570
160	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Baystate Medical Center, Series 2009I, 5.750%, 7/01/36	7/19 at 100.00	A+	180,355
775	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caregroup Inc., Series B1 Capital Asset Program Converted June 13, 2008, 5.375%, 2/01/26 – NPMG Insured	8/18 at 100.00	A–	886,143
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 – NPMG Insured	8/18 at 100.00	A–	569,500
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	1,139,710
550	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Emerson Hospital, Series 2005E: 5.000%, 8/15/25 – RAAI Insured	8/15 at 100.00	N/R	558,003
315	5.000%, 8/15/35 – RAAI Insured	8/15 at 100.00	N/R	315,356
600	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+	654,912
1,000		8/17 at 100.00	A+	1,089,190

	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Medical Center, Series 2007D, 5.250%, 8/15/28			
290	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-	295,174
500	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milton Hospital Project, Series 2005D, 5.250%, 7/01/30	7/15 at 100.00	BB-	517,435
159	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012A, 6.000%, 2/15/43	5/13 at 100.00	D	135,435
123	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012B, 6.375%, 2/15/43	5/13 at 100.00	D	12,345
190	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012C, 6.625%, 2/15/43	5/13 at 100.00	D	2
285	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-	298,016
8,647	Total Health Care Housing/Multifamily – 6.9% (4.7% of Total Investments)			8,591,728
555	Massachusetts Development Finance Authority, Multifamily Housing Revenue Bonds, Emerson Manor Project, Series 2007, 4.800%, 7/20/48	7/17 at 100.00	BB	579,187
500	Massachusetts Housing Finance Agency, Housing Revenue Bonds, Series 2003S, 5.050%, 12/01/23 (Alternative Minimum Tax)	6/13 at 100.00	AA-	501,810
1,000	Somerville Housing Authority, Massachusetts, GNMA Collateralized Mortgage Revenue Bonds, Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22	5/13 at 102.00	N/R	1,032,230
2,055	Total Housing/Multifamily Housing/Single Family – 3.7% (2.6% of Total Investments)			2,113,227

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650	Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-126, 4.625%, 6/01/32 (Alternative Minimum Tax)	6/16 at 100.00	AA	669,370
400	Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2008, Trust 3145, 15.583%, 6/01/16 (IF)	No Opt. Call	AA	468,300
1,050	Total Housing/Single Family Industrials – 1.2% (0.8% of Total Investments)			1,137,670
100	Massachusetts Development Finance Agency, Pioneer Valley Resource Recovery Revenue Bonds, Eco/Springfield LLC, Series 2006, 5.875%, 7/01/14 (Alternative Minimum Tax)	No Opt. Call	N/R	99,584
200	Massachusetts Development Finance Agency, Solid Waste Disposal Revenue Bonds, Waste Management Inc., Series 2003, 5.450%, 6/01/14	No Opt. Call	BBB	211,422
65	Massachusetts Development Finance Authority, Revenue Bonds, 100 Cambridge Street Redevelopment, M/SRBC Project, Series 2002A, 5.125%, 2/01/34 – NPFG Insured	5/13 at 100.00	BBB	65,073
365	Total Industrials Long-Term Care – 4.8% (3.3% of Total Investments)			376,079
100	Massachusetts Development Finance Agency, Revenue Bonds, Carleton-Willard Village, Series 2010, 5.625%, 12/01/30	12/19 at 100.00	A–	111,064
725	Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.250%, 10/01/26	4/13 at 102.00	N/R	738,869
605	Massachusetts Development Finance Authority, First Mortgage Revenue Bonds, Berkshire Retirement Community – Edgecombe Project, Series 2001A, 6.750%, 7/01/21	7/13 at 100.00	BBB	611,020
1,430	Total Long-Term Care Tax Obligation/General – 13.6% (9.3% of Total Investments)			1,460,953
310	Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 – AMBAC Insured	5/15 at 100.00	Aa2	342,296
55	Fall River, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 2/01/21 – AGM Insured	2/14 at 100.00	AA–	55,770
1,000	Hampden-Wilbraham Regional School District, Hampden County, Massachusetts, General Obligation	2/21 at 100.00	Aa3	1,120,050

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	Bonds, Series 2011, 5.000%, 2/15/41 Norwell, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 11/15/20 – FGIC Insured	No Opt. Call	AAA	629,255
500				
	Puerto Rico, General Obligation and Public Improvement Bonds, Series 2002A, 5.500%, 7/01/29 – FGIC Insured	No Opt. Call	Baa3	526,795
500				
1,280	Quincy, Massachusetts, General Obligation Bonds, Series 2011, 5.125%, 12/01/33	12/20 at 100.00	Aa2	1,476,531
3,645	Total Tax Obligation/General Tax Obligation/Limited – 17.0% (11.6% of Total Investments)			4,150,697
	Martha’s Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 –5/14 at 100.00 AMBAC Insured		A–	412,973
395				
	Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds, Series 2004C, 5.250%, 7/01/21	No Opt. Call	AAA	495,187
385				
	Massachusetts College Building Authority, Project Revenue Bonds, Series 2008A, 5.000%, 5/01/33 – AGC Insured	5/18 at 100.00	AA	628,073
550				
	Massachusetts College Building Authority, Revenue Bonds, Refunding Series 2012B, 5.000%, 5/01/37	5/22 at 100.00	AA	330,039
285				
	Massachusetts State, Special Obligation Dedicated Tax Revenue Bonds, Series 2005, 5.000%, 1/01/20 – FGIC Insured	No Opt. Call	A1	273,505
230				
	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 6.000%, 8/01/42	8/19 at 100.00	A+	828,638
750				
	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2011A-1, 5.000%, 8/01/43	8/21 at 100.00	A+	1,563,270
1,500				
	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Refunding Series 2012A, 5.000%, 10/01/32	No Opt. Call	BBB+	657,654
600				
4,695	Total Tax Obligation/Limited Transportation – 6.0% (4.1% of Total Investments)			5,189,339
	Massachusetts Port Authority, Airport System Revenue Bonds, Series 2010A, 5.000%, 7/01/30	7/20 at 100.00	AA	596,365
500				
	Massachusetts Port Authority, Special Facilities Revenue Bonds, BOSFUEL Corporation, Series	7/17 at 100.00	A2	434,720
400				



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	2007, 5.000%, 7/01/32 – FGIC Insured (Alternative Minimum Tax) Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series	7/13 at 100.00	N/R	499,965
500	2001A, 5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax) Metropolitan Boston Transit Parking Corporation, Massachusetts, Systemwide Senior Lien Parking	7/21 at 100.00	A+	291,086
260	Revenue Bonds, Series 2011, 5.000%, 7/01/41 Total Transportation			1,822,136
1,660	U.S. Guaranteed – 13.3% (9.1% of Total Investments) (5) Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series	11/14 at 100.00	AA+ (5)	572,845
530	2004A, 5.000%, 11/01/25 (Pre-refunded 11/01/14) Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19	5/14 at 100.00	Aa2 (5)	242,832
230	(Pre-refunded 5/01/14) – NPMFG Insured Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31	5/16 at 100.00	Aa2 (5)	285,068
250	(Pre-refunded 5/01/16) – AMBAC Insured Massachusetts Development Finance Authority, Revenue Bonds, Massachusetts College of Pharmacy	7/15 at 100.00	AA– (5)	548,816
495	and Allied Health Sciences, Series 2005D, 5.000%, 7/01/27 (Pre-refunded 7/01/15) – AGC Insured Massachusetts Development Finance Authority, Revenue Bonds, Milton Academy, Series 2003A, 5.000%, 9/01/19 (Pre-refunded 9/01/13)	9/13 at 100.00	AA– (5)	512,105
500	Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2005A, 5.000%, 8/15/20 (Pre-refunded 8/15/15) – AGM Insured (UB)	8/15 at 100.00	AA+ (5)	556,895
500	Massachusetts State, Special Obligation Dedicated Tax Revenue Bonds, Series 2004, 5.250%, 1/01/25 (Pre-refunded 1/01/14) – FGIC Insured	1/14 at 100.00	A1 (5)	781,994
750	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 2005-11, 4.500%, 8/01/29 (Pre-refunded 8/01/15)	8/15 at 100.00	AAA	551,084
500	Total U.S. Guaranteed			4,051,639
3,755				

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	Utilities – 1.1% (0.7% of Total Investments)			
	Massachusetts Development Finance Agency, Resource Recovery Revenue Refunding			
		11/17 at		
320	Bonds, Covanta	100.00	BB+	330,435
	Energy Project, Series 2012B, 4.875%, 11/01/42			
	Water and Sewer – 3.3% (2.3% of Total Investments)			
	Guam Government Waterworks Authority, Water and Wastewater System Revenue			
125	Bonds, Series	7/15 at 100.00	Ba2	130,073
	2005, 6.000%, 7/01/25			
	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series			
400	2006-12,	8/16 at 100.00	AAA	423,856
	4.375%, 8/01/31 (UB)			
	Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program,			
200	Series	8/16 at 100.00	AAA	200,895
	2002A, 5.250%, 8/01/20			
	Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A,			
250	4.000%, 8/01/46	8/16 at 100.00	AA+	256,074
975	Total Water and Sewer			1,010,898
\$ 41,707	Total Investments (cost \$41,446,916) – 146.2%			44,636,703
	Floating Rate Obligations – (1.8)%			(560,000)
	MuniFund Term Preferred Shares, at Liquidation Value – (48.2)% (6)			(14,725,000)
	Other Assets Less Liabilities – 3.8%			1,183,861
	Net Assets Applicable to Common Shares – 100%			\$ 30,535,564

### Fair Value Measurements

Fair value is defined as the price that the Fund would receive upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Prices are determined using significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				
Municipal Bonds	\$ —	\$44,636,703	\$ —	\$44,636,703

### 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 timing differences in recognizing taxable market discount, timing differences in recognizing certain gains and losses on investment transactions and the treatment of investments in inverse floating rate securities reflected as financing transactions, if any. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

As of February 28, 2013, the cost of investments was \$40,846,213.

Gross unrealized appreciation and gross unrealized depreciation of investments as of February 28, 2013, were as follows:

Gross unrealized:	
Appreciation	\$3,448,744

Depreciation	(218,548)
Net unrealized appreciation (depreciation) of investments	\$3,230,196

- (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.  
Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.
  - (3) At or subsequent to the end of the reporting period, this security is non-income producing. Non-income producing security, in the case of a fixed-income security, generally denotes that the issuer has (1) defaulted on the payment of principal or interest, (2) is under the protection of the Federal Bankruptcy Court or (3) the Fund's Adviser has concluded that the issue is not likely to meet its future interest payment obligations and has directed the Fund's custodian to cease accruing additional income on the Fund's records.  
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities,
  - (4) which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
  - (5) MuniFund Term Preferred Shares, at Liquidation Value as a percentage of Total Investments is 33.0%.
  - (6) N/R Not rated.
  - (IF) Inverse floating rate investment.
  - (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.
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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: See EX-99 CERT attached hereto.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Nuveen Massachusetts Dividend Advantage Municipal Fund

By (Signature and Title) /s/ Kevin J. McCarthy  
Kevin J. McCarthy  
Vice President and Secretary

Date: April 29, 2013

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons 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: April 29, 2013

By (Signature and Title) /s/ Stephen D. Foy  
Stephen D. Foy  
Vice President and Controller (principal financial officer)

Date: April 29, 2013