

NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE 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 811-09451

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: 2/28/14

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 Dividend Advantage  
Municipal Fund (NMB)  
February 28, 2014

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 153.1% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 153.1% (100.0% of Total Investments)			
	Consumer Discretionary – 1.2% (0.8% 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) (4)	9/14 at 100.00	Caa3	\$ 346,733
	Education and Civic Organizations – 42.9% (28.0% of Total Investments)			
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:			
490	17.464%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	575,980
150	17.361%, 10/01/48 (IF) (5)	10/23 at 100.00	A1	176,288
110	Massachusetts Development Finance Agency, Revenue Bonds, Draper Laboratory, Series 2008, 5.875%, 9/01/30	9/18 at 100.00	Aa3	124,175
400	Massachusetts Development Finance Agency, Revenue Bonds, Emerson College, Series 2010A, 5.000%, 1/01/40	1/20 at 100.00	BBB+	402,084
500	Massachusetts Development Finance Agency, Revenue Bonds, Lesley University Issue Series	7/21 at 100.00	AA–	539,890

	B-1			
	and B-2, 5.250%, 7/01/33 – AGM Insured			
	Massachusetts Development Finance Agency,			
	Revenue Bonds, Northeastern University,			
	Series 2014A:			
210	5.000%, 3/01/39	3/24 at 100.00	A2	222,115
500	5.000%, 3/01/44	3/24 at 100.00	A2	524,280
	Massachusetts Development Finance Agency,			
	Revenue Bonds, The Broad Institute, Series			
1,000	2011A,	4/21 at 100.00	AA–	1,065,360
	5.250%, 4/01/37			
	Massachusetts Development Finance Agency,			
	Revenue Bonds, Worcester Polytechnic			
450	Institute,	9/17 at 100.00	A+	469,458
	Series 2007, 5.000%, 9/01/37 – NPFG Insured			
	Massachusetts Development Finance Agency,			
	Revenue Bonds, Worcester Polytechnic			
200	Institute,	9/22 at 100.00	A+	207,076
	Series 2012, 5.000%, 9/01/50			
	Massachusetts Development Finance			
	Authority, Revenue Bonds, WGBH			
500	Educational Foundation,	No Opt. Call	A	580,250
	Series 2002A, 5.750%, 1/01/42 – AMBAC			
	Insured			
	Massachusetts Development Finance			
	Authority, Revenue Bonds, WGBH			
2,100	Educational Foundation,	1/18 at 100.00	AA–	2,150,312
	Series 2008A, 5.000%, 1/01/42 – AGC Insured			
	Massachusetts Development Finance			
	Authority, Revenue Refunding Bonds, Boston			
1,000	University,	5/29 at 105.00	A1	1,154,060
	Series 1999P, 6.000%, 5/15/59			
	Massachusetts Educational Finance Authority,			
	Educational Loan Revenue Bonds, Series			
35	2001E,	7/14 at 100.00	AA	35,125
	5.300%, 1/01/16 – AMBAC Insured			
	(Alternative Minimum Tax)			
	Massachusetts Educational Financing			
	Authority, Education Loan Revenue Bonds,			
450	Series 2008H,	1/18 at 100.00	AA	480,591
	6.350%, 1/01/30 – AGC Insured (Alternative			
	Minimum Tax)			
	Massachusetts Health and Educational			
	Facilities Authority, Revenue Bonds,	10/19 at		
500	Springfield College,	100.00	Baa1	538,625
	Series 2010, 5.500%, 10/15/31			
	Massachusetts Health and Educational			
	Facilities Authority, Revenue Bonds, Wheaton			
1,500	College	1/20 at 100.00	A2	1,545,450
	Issues, Series 2010F, 5.000%, 1/01/41			
75		7/16 at 100.00	AA+	80,219

	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2007L, 5.000%, 7/01/31			
500	Massachusetts Health and Educational Facilities Authority, Revenue Refunding Bonds, Suffolk University Issue, Series 2009A, 5.750%, 7/01/39	7/19 at 100.00	BBB	527,770
100	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	No Opt. Call	BBB	71,805
11,145	Total Education and Civic Organizations Health Care – 33.0% (21.5% of Total Investments)			11,886,837
240	Massachusetts Development Finance Agency, Revenue Bonds, Milford Regional Medical Center Issue, Series 2014F, 5.750%, 7/15/43	7/23 at 100.00	BBB–	250,046
157	Massachusetts Development Finance Agency, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012A, 6.000%, 2/15/43, (6)	8/14 at 100.00	D	121,459
124	Massachusetts Development Finance Agency, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012B, 0.000%, 2/15/43	1/43 at 102.19	D	12,375
181	Massachusetts Development Finance Agency, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2012C, 0.000%, 2/15/43	8/14 at 100.00	D	2
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	1,291,200
625	Massachusetts Development Finance Agency, Revenue Bonds, The Lowell General Hospital, Series 2013G, 5.000%, 7/01/44	7/23 at 100.00	BBB+	619,175
500	Massachusetts Development Finance Agency, Revenue Bonds, UMass Memorial Health, Series 2011H, 5.500%, 7/01/31	7/21 at 100.00	BBB+	519,840
500	Massachusetts Health and Educational Facilities Authority Revenue Bonds, Quincy Medical Center Issue, Series 2008A, 6.500%, 1/15/38 (6)	1/18 at 100.00	N/R	1,405

Edgar Filing: NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND - Form N-Q

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+	174,542
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	862,614
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	554,980
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
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	537,796
315	5.000%, 8/15/35 – RAAI Insured	8/15 at 100.00	N/R	280,734
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+	634,146
1,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Medical Center, Series 2007D, 5.250%, 8/15/28	8/17 at 100.00	A+	1,089,970
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–	284,855
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+	500,010
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	BBB+	285,200
9,502	Total Health Care Housing/Multifamily – 7.4% (4.9% of Total Investments)			9,132,429
550	Massachusetts Development Finance Authority, Multifamily Housing Revenue	7/17 at 100.00	BB	556,034

485	Bonds, Emerson Manor Project, Series 2007, 4.800%, 7/20/48 Massachusetts Housing Finance Agency, Housing Revenue Bonds, Series 2003S, 5.050%, 12/01/23 (Alternative Minimum Tax)	6/14 at 100.00	AA-	485,378
1,000	Somerville Housing Authority, Massachusetts, GNMA Collateralized Mortgage Revenue Bonds, Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22	5/14 at 101.00	N/R	1,021,650
2,035	Total Housing/Multifamily Housing/Single Family – 2.4% (1.5% of Total Investments)			2,063,062
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	652,652
100	Industrials – 1.3% (0.9% of Total Investments) 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	99,578
200	Massachusetts Development Finance Agency, Solid Waste Disposal Revenue Bonds, Waste Management Inc., Series 2003, 5.450%, 6/01/14	No Opt. Call	A-	202,572
65	Massachusetts Development Finance Authority, Revenue Bonds, 100 Cambridge Street Redevelopment, M/SRBC Project, Series 2002A, 5.125%, 2/01/34 – NPMG Insured	8/14 at 100.00	A	65,023
365	Total Industrials Long-Term Care – 5.8% (3.8% of Total Investments)			367,173
100	Massachusetts Development Finance Agency, Revenue Bonds, Carleton-Willard Village, Series 2010, 5.625%, 12/01/30	12/19 at 100.00	A-	105,488
205	Massachusetts Development Finance Agency, Revenue Bonds, Loomis Communities, Series 2013A, 5.250%, 1/01/26	1/23 at 100.00	BBB-	207,880
725	Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.250%, 10/01/26	4/14 at 102.00	N/R	725,435
555	Massachusetts Development Finance Authority, First Mortgage Revenue Bonds, Berkshire	7/14 at 100.00	BBB	556,271

Edgar Filing: NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND - Form N-Q

1,585	Retirement Community – Edgecombe Project, Series 2001A, 6.750%, 7/01/21 Total Long-Term Care Tax Obligation/General – 12.2% (8.0% of Total Investments)			1,595,074
310	Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 – AMBAC Insured	5/15 at 100.00	Aa2	327,648
1,000	Hampden-Wilbraham Regional School District, Hampden County, Massachusetts, General Obligation Bonds, Series 2011, 5.000%, 2/15/41	2/21 at 100.00	Aa3	1,054,960
500	Norwell, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 11/15/20 – FGIC Insured	No Opt. Call 12/20 at 100.00	AAA	602,815
1,280	Quincy, Massachusetts, General Obligation Bonds, Series 2011, 5.125%, 12/01/33	100.00	Aa2	1,387,994
3,090	Total Tax Obligation/General Tax Obligation/Limited – 16.8% (11.0% of Total Investments)			3,373,417
385	Government of Guam, Business Privilege Tax Bonds, Series 2011A, 5.125%, 1/01/42	1/22 at 100.00	A	391,183
395	Martha’s Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 – 5/14 at 100.00 AMBAC Insured		A–	397,797
385	Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds, Series 2004C, 5.250%, 7/01/21	No Opt. Call	AAA	471,818
550	Massachusetts College Building Authority, Project Revenue Bonds, Series 2008A, 5.000%, 5/01/33 – AGC Insured	5/18 at 100.00	AA	595,199
285	Massachusetts College Building Authority, Revenue Bonds, Refunding Series 2012B, 5.000%, 5/01/37	5/22 at 100.00	AA	308,721
1,495	Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2007A, 5.000%, 8/15/37 – AMBAC Insured	8/17 at 100.00	AA+	1,606,168
230	Massachusetts State, Special Obligation Dedicated Tax Revenue Bonds, Series 2005, 5.000%, 1/01/20 – FGIC Insured	No Opt. Call	A1	268,065
600	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Refunding Series 2012A, 5.000%, 10/01/32	No Opt. Call	BBB+	606,444
4,325	Total Tax Obligation/Limited Transportation – 6.2% (4.1% of Total Investments)			4,645,395
500		7/20 at 100.00	AA	568,720



	Massachusetts Port Authority, Airport System Revenue Bonds, Series 2010A, 5.000%, 7/01/30			
400	Massachusetts Port Authority, Special Facilities Revenue Bonds, BOSFUEL Corporation, Series 2007, 5.000%, 7/01/32 – FGIC Insured (Alternative Minimum Tax)	7/17 at 100.00	A	407,296
500	Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A, 5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax)	7/14 at 100.00	N/R	477,600
260	Metropolitan Boston Transit Parking Corporation, Massachusetts, Systemwide Senior Lien Parking Revenue Bonds, Series 2011, 5.000%, 7/01/41	7/21 at 100.00	A+	272,927
1,660	Total Transportation U.S. Guaranteed – 19.2% (12.5% of Total Investments) (7)			1,726,543
530	Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series 2004A, 5.000%, 11/01/25 (Pre-refunded 11/01/14)	11/14 at 100.00	AA+ (7)	547,474
55	Fall River, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 2/01/21 (Pre-refunded 4/01/14) – AGM Insured	4/14 at 100.00	AA- (7)	55,248
2,000	Massachusetts Bay Transportation Authority, Assessment Bonds, Series 2004A, 5.250%, 7/01/31 (Pre-refunded 7/01/14)	7/14 at 100.00	AAA	2,035,200
230	Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19 (Pre-refunded 5/01/14) – NCFG Insured	5/14 at 100.00	Aa2 (7)	231,969
250	Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31 (Pre-refunded 5/01/16) – AMBAC Insured	5/16 at 100.00	Aa2 (7)	275,540
495	Massachusetts Development Finance Authority, Revenue Bonds, Massachusetts College of Pharmacy and Allied Health Sciences, Series 2005D, 5.000%, 7/01/27 (Pre-refunded 7/01/15) – AGC Insured	7/15 at 100.00	AA- (7)	526,853
515	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2007L, 5.000%, 7/01/31 (Pre-refunded 7/01/16)	7/16 at 100.00	N/R (7)	571,629

Edgar Filing: NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND - Form N-Q

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+ (7)	535,295
500	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	530,690
5,075	Total U.S. Guaranteed Utilities – 1.1% (0.7% of Total Investments)			5,309,898
320	Massachusetts Development Finance Agency, Resource Recovery Revenue Refunding Bonds, Covanta Energy Project, Series 2012B, 4.875%, 11/01/42 Water and Sewer – 3.6% (2.3% of Total Investments)	11/17 at 100.00	BB+	300,938
125	Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2005, 6.000%, 7/01/25	7/15 at 100.00	A–	127,471
400	Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 2006-12, 4.375%, 8/01/31 (UB)	8/16 at 100.00	AAA	409,700
200	Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Series 2002A, 5.250%, 8/01/20	8/14 at 100.00	AAA	200,884
250	Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/46	8/16 at 100.00	AA+	250,253
975	Total Water and Sewer			988,308
\$ 41,207	Total Long-Term Investments (cost \$40,973,671)			42,388,459
	Floating Rate Obligations – (2.0)%			(560,000)
	MuniFund Term Preferred Shares, at Liquidation Value – (53.2)% (8)			(14,725,000)
	Other Assets Less Liabilities – 2.1%			582,989
	Net Assets Applicable to Common Shares – 100%			\$ 27,686,448

### 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	\$ —	\$42,388,459	\$ —	\$42,388,459

### 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, 2014, the cost of investments was \$40,366,248.

Gross unrealized appreciation and gross unrealized depreciation of investments as of February 28, 2014, were as follows:

Gross unrealized:	
Appreciation	\$2,002,343
Depreciation	(540,374)
Net unrealized appreciation (depreciation) of investments	\$1,461,969



- (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 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.
  - (4) On September 1, 2013, the Fund's Adviser determined it was unlikely that this borrower would fulfill its entire obligation on this security, and therefore reduced the security's interest rate of accrual from 6.500% to 5.200%.
  - (5) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
  - (6) At or subsequent to the end of the reporting period, this security is non-income producing. Non-income producing, 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.
  - (7) 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. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
  - (8) MuniFund Term Preferred Shares, at Liquidation Value as a percentage of Total Investments is 34.7%.
  - (IF) Inverse floating rate investment.
  - (UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.
-

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.

---

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, 2014

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, 2014

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

Date: April 29, 2014