NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND Form N-Q October 29, 2010

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: 8/31/10

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) August 31, 2010

		Optional		
Principal		Call		
Amount		Provisions		
(000)	Description (1)	(2) Ra	tings (3)	Value
	Consumer Discretionary – 0.9% (0.6% of Total Investments)			
	Boston Industrial Development Financing Authority, Massachusetts,	9/12 at		
\$ 480	Senior Revenue Bonds,	102.00	Caa3	\$ 267,898
	Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative			
	Minimum Tax)			
	Education and Civic Organizations – 49.3% (32.2% of Total			
	Investments)			
	Massachusetts Development Finance Agency, Revenue Bonds,	1/20 at		
400	Emerson College, Series 2010A,	100.00	A-	407,140
	5.000%, 1/01/40			
	Massachusetts Development Finance Agency, Revenue Bonds,	9/17 at		
450	Worcester Polytechnic Institute,	100.00	A+	466,115
	Series 2007, 5.000%, 9/01/37 – NPFG Insured			
	Massachusetts Development Finance Authority, Revenue Bonds,	10/19 at		
375	Boston University Issue, Series	100.00	A	403,313
	2009-V1, 5.000%, 10/01/29			
	Massachusetts Development Finance Authority, Revenue Bonds,	7/15 at		
495	Massachusetts College of Pharmacy	100.00	AAA	528,526
	and Allied Health Sciences, Series 2005D, 5.000%, 7/01/27 – AGC			
	Insured			
	Massachusetts Development Finance Authority, Revenue Bonds,	9/13 at		
500	Milton Academy, Series 2003A,	100.00	AA-	564,800
	5.000%, 9/01/19			
	Massachusetts Development Finance Authority, Revenue Bonds,	No Opt.		
500	WGBH Educational Foundation,	Call	A	586,990
	Series 2002A, 5.750%, 1/01/42 – AMBAC Insured			
	Massachusetts Development Finance Authority, Revenue Bonds,	1/18 at		
2,100	WGBH Educational Foundation,	100.00	AAA	2,204,307
	Series 2008A, 5.000%, 1/01/42 – AGC Insured (UB)			
	Massachusetts Development Finance Authority, Revenue Refunding	5/29 at		
1,000	Bonds, Boston University,	105.00	A2	1,192,500
	Series 1999P, 6.000%, 5/15/59			
	Massachusetts Educational Finance Authority, Educational Loan	1/11 at		
990	Revenue Bonds, Series 2001E,	100.00	AA	991,861
	5.300%, 1/01/16 – AMBAC Insured (Alternative Minimum Tax)			
	Massachusetts Health and Educational Facilities Authority, Revenue	6/13 at		
1,000	Bonds, Boston College,	100.00	AA-	1,109,470
	Series 2003N, 5.250%, 6/01/18			
1,000			N/R	593,460

	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Hebrew College,	3/11 at 100.00		
	Series 1999A, 0.795%, 7/01/31 – RAAI Insured (4)	10/10		
500	Massachusetts Health and Educational Facilities Authority, Revenue	10/19 at	D 1	521 075
500	Bonds, Springfield College,	100.00	Baa1	531,275
	Series 2010, 5.500%, 10/15/31 Massachwatta Health and Educational Escilities Authority Payanus	2/11 at		
2,000	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Tufts University,	2/11 at 100.00	Aa2	2,013,740
2,000	Series 2001I, 5.500%, 2/15/36	100.00	Aaz	2,013,740
	Massachusetts Health and Educational Facilities Authority, Revenue	No Opt.		
1,500	Bonds, Wheaton College	Call	A2	1,550,775
1,500	Issues, Series 2010F, 5.000%, 1/01/41	Can	112	1,550,775
	Massachusetts Health and Educational Facilities Authority, Revenue	7/16 at		
590	Bonds, Williams College,	100.00	AAA	653,460
0,0	Series 2007L, 5.000%, 7/01/31	100,00		322,.33
	Massachusetts Health and Educational Facilities Authority, Revenue	7/19 at		
500	Refunding Bonds, Suffolk	100.00	BBB	528,855
	University Issue, Series 2009A, 5.750%, 7/01/39			
13,900	Total Education and Civic Organizations			14,326,587
	Health Care – 28.6% (18.6% of Total Investments)			
	Massachusetts Health and Educational Facilities Authority Revenue	1/18 at		
500	Bonds, Quincy Medical Center	100.00	N/R	462,260
	Issue, Series 2008A, 6.500%, 1/15/38			
	Massachusetts Health and Educational Facilities Authority, Revenue	10/11 at		
500	Bonds, Berkshire Health	101.00	BBB+	509,265
	System, Series 2001E, 6.250%, 10/01/31			
	Massachusetts Health and Educational Facilities Authority, Revenue	8/18 at		
775	Bonds, Caregroup Inc.,	100.00	A	820,717
	Series B1 Capital Asset Program Converted June 13,2008, 5.375%,			
	2/01/26 – NPFG Insured	0/10		
500	Massachusetts Health and Educational Facilities Authority, Revenue	8/18 at	4	526 905
500	, 6 1	100.00	A	526,805
	Series B2, Capital Asset Program, Converted June 9, 2009, 5.375%, 2/01/27 – NPFG Insured			
	Massachusetts Health and Educational Facilities Authority, Revenue	1/11 at		
250	•	100.00	BBB	250,333
230	Obligated Group, Series 1999A, 5.625%, 7/01/20	100.00	טטט	250,555
	Massachusetts Health and Educational Facilities Authority, Revenue	12/19 at		
1,000	Bonds, Children's Hospital,	100.00	AA	1,088,330
-,	Series 2009M, 5.500%, 12/01/39			-,,
	Massachusetts Health and Educational Facilities Authority, Revenue	1/12 at		
295	Bonds, Covenant Health	101.00	A	301,959
	Systems Obligated Group, Series 2002, 6.000%, 7/01/31			
	Massachusetts Health and Educational Facilities Authority, Revenue			
	Bonds, Emerson Hospital,			
	Series 2005E:			
		8/15 at		
550	5.000%, 8/15/25 – RAAI Insured	100.00	N/R	515,796
	5,000% 0/15/05 D. L. L. L.	8/15 at	***	07.4.405
	5.000%, 8/15/35 – RAAI Insured	100.00	N/R	274,132
600			A+	635,850

	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Clinic Medical	8/15 at 100.00		
	Center, Series 2005C, 5.000%, 8/15/21 – FGIC Insured	100.00		
	Massachusetts Health and Educational Facilities Authority, Revenue	8/17 at		
1 000	Bonds, Lahey Medical	100.00	A+	1,042,530
1,000	Center, Series 2007D, 5.250%, 8/15/28	100.00	Ат	1,042,330
	Massachusetts Health and Educational Facilities Authority, Revenue	7/17 at		
200	Bonds, Milford Regional	100.00	BBB-	256,198
290	Medical Center, Series 2007E, 5.000%, 7/15/32	100.00	–מממ	230,196
		7/15 at		
500	Massachusetts Health and Educational Facilities Authority, Revenue	100.00	BB-	209 275
300	Bonds, Milton Hospital	100.00	DD-	398,275
	Project, Series 2005D, 5.250%, 7/01/30 Massachusetta Health and Educational Equilities Authority Payanus	7/1/ ot		
500	Massachusetts Health and Educational Facilities Authority, Revenue	7/14 at	aaa	200 405
300	Bonds, Northern Berkshire	100.00	CCC	389,485
	Community Services Inc., Series 2004B, 6.375%, 7/01/34	7/11 -4		
25	Massachusetts Health and Educational Facilities Authority, Revenue	7/11 at	A A	25 021
33	Bonds, Partners HealthCare	101.00	AA	35,831
	System Inc., Series 2001C, 5.750%, 7/01/32	7/11		
500	Massachusetts Health and Educational Facilities Authority, Revenue	7/11 at	DDD.	507.040
500	Bonds, UMass Memorial	100.00	BBB+	507,040
	Health Care, Series 2001C, 6.625%, 7/01/32	7/15		
205	Massachusetts Health and Educational Facilities Authority, Revenue	7/15 at	DDD.	206 104
285	Bonds, UMass Memorial	100.00	BBB+	286,194
0.205	Health Care, Series 2005D, 5.000%, 7/01/33			0.201.000
8,395	Total Health Care			8,301,000
	Housing/Multifamily – 11.2% (7.3% of Total Investments)	545		
	Massachusetts Development Finance Authority, Multifamily Housing	7/17 at		7.57.222
565	Revenue Bonds, Emerson Manor	100.00	AAA	565,333
	Project, Series 2007, 4.800%, 7/20/48	644.0		
7 00	Massachusetts Housing Finance Agency, Housing Revenue Bonds,	6/13 at		707.040
500	Series 2003S, 5.050%, 12/01/23	100.00	AA-	505,240
	(Alternative Minimum Tax)			
	Massachusetts Housing Finance Agency, Rental Housing Mortgage	1/11 at		
1,135	Revenue Bonds, Series 2001A,	100.00	N/R	1,136,328
	5.850%, 7/01/35 – AMBAC Insured (Alternative Minimum Tax)	~ / · ·		
4 000	Somerville Housing Authority, Massachusetts, GNMA Collateralized	5/12 at		
1,000	Mortgage Revenue Bonds,	103.00	N/R	1,051,740
2 200	Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22			2 250 641
3,200	Total Housing/Multifamily			3,258,641
	Housing/Single Family – 4.1% (2.6% of Total Investments)	611.6		
650	Massachusetts Housing Finance Agency, Single Family Housing	6/16 at		600 700
650	Revenue Bonds, Series 2006-126,	100.00	AA	628,739
	4.625%, 6/01/32 (Alternative Minimum Tax)			
400	Massachusetts Housing Finance Agency, Single Family Housing	6/18 at		7. 40. 70 0
480	Revenue Bonds, Series 2008, Trust	100.00	AA	549,528
4 4 4 4 4 4	3145, 15.116%, 6/01/16 (IF)			4 4 5 0 6 6 5
1,130	Total Housing/Single Family			1,178,267
	Industrials – 1.2% (0.7% of Total Investments)	N. O		
105	Massachusetts Development Finance Agency, Pioneer Valley	No Opt.	3.775	101 400
125	Resource Recovery Revenue Bonds,	Call	N/R	121,408

	Eco/Springfield LLC, Series 2006, 5.875%, 7/01/14 (Alternative Minimum Tax)			
200	Massachusetts Development Finance Agency, Solid Waste Disposal Revenue Bonds, Waste Management	No Opt. Call	BBB	215,662
325	Inc., Series 2003, 5.450%, 6/01/14 Total Industrials Long-Term Care – 8.5% (5.6% of Total Investments)			337,070
100	Massachusetts Development Finance Agency, Revenue Bonds, Carleton-Willard Village, Series	12/19 at 100.00	A-	103,601
	2010, 5.625%, 12/01/30 Massachusetts Development Finance Agency, Revenue Bonds,	10/12 at		
725	Orchard Cove, Series 2007, 5.250%, 10/01/26	102.00	N/R	633,404
655	Massachusetts Development Finance Authority, First Mortgage Revenue Bonds, Berkshire Retirement Community – Edgecombe Project, Series 2001A, 6.750%, 7/01/21	7/11 at 102.00	BBB	675,613
1,000	Massachusetts Development Finance Authority, GNMA Collateralized Assisted Living Facility Revenue Bonds, Arbors at Chicopee, Series 2001A, 6.250%, 9/20/42	3/12 at 105.00	AAA	1,060,900
2,480	(Alternative Minimum Tax) Total Long-Term Care Tax Obligation/General – 6.9% (4.5% of Total Investments)			2,473,518
310	Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 – AMBAC Insured Fall River, Massachusetts, General Obligation Bonds, Series 2003,	5/15 at 100.00 2/13 at	Aa2	340,597
440	5.000%, 2/01/21 – AGM Insured Norwell, Massachusetts, General Obligation Bonds, Series 2003,	101.00 No Opt.	AAA	464,451
500	5.000%, 11/15/20 – FGIC Insured Puerto Rico, General Obligation and Public Improvement Bonds,	Call No Opt.	AAA	625,930
	Series 2002A, 5.500%, 7/01/29 – FGIC Insured	Call	A3	565,070
1,750	Total Tax Obligation/General Tax Obligation/Limited – 11.6% (7.6% of Total Investments)	5/1/4 - 4		1,996,048
395	Martha's Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 – AMBAC Insured	5/14 at 100.00	A	415,133
385	Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds, Series 2004C, 5.250%, 7/01/21	No Opt. Call	AAA	487,429
230	Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19 – NPFG Insured	5/14 at 100.00	Aa2	257,386
250	Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31 – AMBAC Insured	5/16 at 100.00	Aa2	265,480
550	Massachusetts College Building Authority, Project Revenue Bonds, Series 2008A, 5.000%, 5/01/33 – AGC Insured	5/18 at 100.00	AAA	591,052
500	Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2005A,	8/15 at 100.00	AAA	576,400

	5.000%, 8/15/20 – AGM Insured			
	Massachusetts, Special Obligation Dedicated Tax Revenue Bonds,	No Opt.		
230	Series 2005, 5.000%, 1/01/20 –	Call	A1	268,419
	FGIC Insured Virgin Islands Public Finance Authority, Gross Passints Toyos Loon	10/10 at		
500	Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Series 1999A,	10/10 at 101.00	BBB+	506,190
300	6.375%, 10/01/19	101.00	דטטט⊤	300,170
3,040	Total Tax Obligation/Limited			3,367,489
- ,	Transportation – 3.3% (2.2% of Total Investments)			- , ,
	Massachusetts Port Authority, Airport System Revenue Bonds, Series	7/20 at		
500	2010A, 5.000%, 7/01/30	100.00	AA-	553,365
	Massachusetts Port Authority, Special Facilities Revenue Bonds,	7/17 at		
400	BOSFUEL Corporation, Series	100.00	A	407,504
000	2007, 5.000%, 7/01/32 – FGIC Insured (Alternative Minimum Tax)			060.060
900	Total Transportation U.S. Guaranteed 12 407 (8.807 of Total Investments) (5)			960,869
	U.S. Guaranteed – 13.4% (8.8% of Total Investments) (5) Boston, Massachusetts, General Obligation Bonds, Series 2001A,	2/11 at		
1,000	5.000%, 2/01/20	100.00	Aaa	1,020,000
1,000	(Pre-refunded 2/01/11)	100.00	1 Iuu	1,020,000
	Lawrence, Massachusetts, General Obligation Bonds, Series 2001,	2/11 at		
1,675	5.000%, 2/01/21 (Pre-refunded	100.00	Aa2 (5)	1,708,500
	2/01/11) – AMBAC Insured			
	Massachusetts Health and Educational Facilities Authority, Revenue	1/12 at		
80	Bonds, Covenant Health	101.00	A(5)	86,854
	Systems Obligated Group, Series 2002, 6.000%, 7/01/31			
	(Pre-refunded 1/01/12) Massachusetts Health and Educational Escilities Authority Payanus	7/11 at		
215	Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare	101.00	AAA	226,973
213	System Inc., Series 2001C, 5.750%, 7/01/32 (Pre-refunded 7/01/11)	101.00	ААА	220,973
	Massachusetts, Special Obligation Dedicated Tax Revenue Bonds,	1/14 at		
750	Series 2004, 5.250%, 1/01/25	100.00	A1 (5)	861,293
	(Pre-refunded 1/01/14) – FGIC Insured		. ,	,
3,720	Total U.S. Guaranteed			3,903,620
	Utilities – 5.6% (3.6% of Total Investments)			
	Massachusetts Development Finance Agency, Resource Recovery	1/12 at		
1,070	Revenue Bonds, SEMass System,	101.00	A	1,113,453
	Series 2001A, 5.625%, 1/01/14 – NPFG Insured	10/10 -4		
500	Massachusetts Industrial Finance Agency, Resource Recovery Revenue Refunding Bonds, Ogden	12/10 at 100.00	BBB	504,235
300	Haverhill Project, Series 1998A, 5.600%, 12/01/19 (Alternative	100.00	БББ	304,233
	Minimum Tax)			
1,570	Total Utilities			1,617,688
	Water and Sewer – 8.7% (5.7% of Total Investments)			
	Boston Water and Sewerage Commission, Massachusetts, General	11/14 at		
530	Revenue Bonds, Senior Series	100.00	AA+	575,644
	2004A, 5.000%, 11/01/25			
105	Guam Government Waterworks Authority, Water and Wastewater	7/15 at	D 0	120.011
125	System Revenue Bonds, Series 2005,	100.00	Ba2	128,811
	6.000%, 7/01/25 Massachusetts Water Pollution Abatement Trust, Pooled Loan	8/15 at		
500	Program Bonds, Series 2005-11,	100.00	AAA	520,215
200		100.00		223,213

	4.500%, 8/01/29				
	Massachusetts Water Pollution Abatement Trust, Pooled Loan	8/16 at			
400	Program Bonds, Series 2006-12,	100.00	AAA	411,968	
	4.375%, 8/01/31				
	Massachusetts Water Pollution Abatement Trust, Revenue Bonds,	8/12 at			
500	MWRA Loan Program, Series 2002A,	100.00	AAA	542,805	
	5.250%, 8/01/20				
	Massachusetts Water Pollution Abatement Trust, Revenue Bonds,	2/11 at			
105	MWRA Loan Program, Subordinate	100.00	AAA	105,419	
	Series 1999A, 5.750%, 8/01/29				
	Massachusetts Water Resources Authority, General Revenue Bonds,	8/16 at			
250	Series 2006A, 4.000%, 8/01/46	100.00	AA+	245,449	
2,410	Total Water and Sewer			2,530,311	
\$ 43,300				44,519,006	
	Floating Rate Obligations – (3.6)% MuniFund Term Preferred Shares, at Liquidation Value – (50.7)% (6)			(1,050,000) (14,725,000)	
			(
	Other Assets Less Liabilities – 1.0%			292,453	
				\$	
	Net Assets Applicable to Common Shares – 100%			29,036,459	

Fair Value Measurements

In determining the value of the Fund's investments, various inputs are used. These inputs are summarized in the three broad levels listed below:

Level 1 – Quoted prices in active markets for identical securities.

Level 2 – Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – 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 risk associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of August 31, 2010:

	Level 1	Level 2	Level 3	Total
Investments:				
Municipal Bonds	\$ —	\$43,925,546	\$593,460	\$44,519,006

The following is a reconciliation of the Fund's Level 3 investments held at the beginning and end of the measurement period:

Level 3
Municipal Bonds
Balance at the beginning of period \$688,820
Gains (losses):
Net realized gains (losses)
Net change in unrealized appreciation (depreciation)
Net purchases at cost (sales at proceeds)
Net discounts (premiums)
Net transfers in to (out of) at end of period fair value
Balance at the end of period

Level 3
Municipal Bonds
\$688,820

—

(95,360)

—

Net transfers in unrealized appreciation (depreciation)
—

Net purchases at cost (sales at proceeds)
—

Set discounts (premiums)
—

Net transfers in to (out of) at end of period fair value
—

Balance at the end of period

\$593,460

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.

At August 31, 2010, the cost of investments was \$42,564,794.

Gross unrealized appreciation and gross unrealized depreciation of investments at August 31, 2010, were as follows:

Gross unrealized:

Appreciation \$1,904,777
Depreciation (1,000,565)
Net unrealized appreciation \$

(depreciation) of investments 904,212

- (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 Investor 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) Investment valued at fair value using methods determined in good faith by, or at the discretion of, the Board of Trustees. For fair value measurement disclosure purposes, investment categorized as Level 3.
- (5) 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. Such investments are normally considered to be equivalent to AAA rated securities.
- (6) MuniFund Term Preferred Shares, at Liquidation Value as a percentage of Total Investments is 33.1%.
- N/R Not rated.
- (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 October 29, 2010

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 October 29, 2010

By (Signature and Title) /s/ Stephen D. Foy

Stephen D. Foy

Vice President and Controller (principal financial officer)

Date October 29, 2010