

NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND
Form N-Q
April 29, 2008

**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: 2/29/08

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 29, 2008

Principal

Amount (000) Description (1)

Consumer Discretionary □ 1.6% (1.0% of Total Investments)

\$ 490 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 □ 31.8% (20.7% of Total Investments)

450 Massachusetts Development Finance Agency, Revenue Bonds, Western New England College, Series 2005A, 5.000%, 9/01/33 □ AGC Insured
 450 Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2007, 5.000%, 9/01/37 □ MBIA Insured
 495 Massachusetts Development Finance Authority, Revenue Bonds, Massachusetts College of Pharmacy and Allied Health Sciences, Series 2005D, 5.000%, 7/01/27 □ AGC Insured
 500 Massachusetts Development Finance Authority, Revenue Bonds, Milton Academy, Series 2003A, 5.000%, 9/01/19
 1,000 Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston University, Series 1999P, 6.000%, 5/15/59
 1,085 Massachusetts Educational Finance Authority, Educational Loan Revenue Bonds, Series 2001E, 5.300%, 1/01/16 □ AMBAC Insured (Alternative Minimum Tax)
 1,000 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Boston College, Series 2003N, 5.250%, 6/01/18
 1,000 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Hebrew College, Series 1999A,, 6.500%, 7/01/31
 2,000 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Tufts University, Series 2001I, 5.500%, 2/15/36
 590 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2007L, 5.000%, 7/01/31

8,570 Total Education and Civic Organizations

Health Care □ 21.4% (13.9% of Total Investments)

500 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Berkshire Health System, Series 2001E, 6.250%, 10/01/31
 250 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caritas Christi Obligated Group, Series 1999A, 5.625%, 7/01/20
 295 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Covenant Health Systems Obligated Group, Series 2002, 6.000%, 7/01/31
 315 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Emerson Hospital, Series 2005E, 5.000%, 8/15/35 □ RAAI Insured
 600 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Clinic Medical Center, Series 2005C, 5.000%, 8/15/21 □ FGIC Insured
 1,000 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
 500 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milton Hospital Project, Series 2005D, 5.250%, 7/01/30
 500 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2004B, 6.375%, 7/01/34
 1,000 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare

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- System Inc., Series 1999B, 5.125%, 7/01/19
- 35 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare System Inc., Series 2001C, 5.750%, 7/01/32
- 500 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial Health Care, Series 2001C, 6.625%, 7/01/32
- 285 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial Health Care, Series 2005D, 5.000%, 7/01/33

6,070 Total Health Care

Housing/Multifamily □ 12.3% (8.0% of Total Investments)

- 570 Massachusetts Development Finance Authority, Multifamily Housing Revenue Bonds, Emerson Manor Project, Series 2007, 4.800%, 7/20/48
- 135 Massachusetts Housing Finance Agency, Housing Bonds, Series 2006A, 5.100%, 12/01/37 (Alternative Minimum Tax)
- 500 Massachusetts Housing Finance Agency, Housing Revenue Bonds, Series 2003S, 5.050%, 12/01/23 (Alternative Minimum Tax)
- 1,215 Massachusetts Housing Finance Agency, Rental Housing Mortgage Revenue Bonds, Series 2001A, 5.850%, 7/01/35 □ AMBAC Insured (Alternative Minimum Tax)
- 1,000 Somerville Housing Authority, Massachusetts, GNMA Collateralized Mortgage Revenue Bonds, Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22

3,420 Total Housing/Multifamily

Housing/Single Family □ 3.3% (2.2% of Total Investments)

- 395 Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-122, 4.875%, 12/01/37 (Alternative Minimum Tax)
- 650 Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-126, 4.625%, 6/01/32 (Alternative Minimum Tax)

1,045 Total Housing/Single Family

Industrials □ 1.3% (0.9% of Total Investments)

- 180 Massachusetts Development Finance Agency, Pioneer Valley Resource Recovery Revenue Bonds, 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 Inc., Series 2003, 5.450%, 6/01/14

380 Total Industrials

Long-Term Care □ 8.7% (5.6% of Total Investments)

- 725 Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.250%, 10/01/26
- 655 Massachusetts Development Finance Authority, First Mortgage Revenue Bonds, Berkshire Retirement Community □ Edgecombe Project, Series 2001A, 6.750%, 7/01/21
- 1,000 Massachusetts Development Finance Authority, GNMA Collateralized Assisted Living Facility Revenue Bonds, Arbors at Chicopee, Series 2001A, 6.250%, 9/20/42 (Alternative Minimum Tax)

2,380 Total Long-Term Care

Tax Obligation/General \square **17.4% (11.2% of Total Investments)**

- 310 Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 \square AMBAC Insured
- 2,000 Brookline, Massachusetts, General Obligation Bonds, Series 2000, 5.375%, 4/01/17
- 440 Fall River, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 2/01/21 \square FSA Insured
- 750 Massachusetts, General Obligation Bonds, Consolidated Loan, Series 2002D, 5.500%, 8/01/19
- 500 Norwell, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 11/15/20 \square FGIC Insured
- 500 Puerto Rico, General Obligation and Public Improvement Bonds, Series 2001A, 5.500%, 7/01/29 \square FGIC Insured

4,500 Total Tax Obligation/General

Tax Obligation/Limited \square **13.4% (8.7% of Total Investments)**

- 395 Martha's Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 \square AMBAC Insured
- 85 Massachusetts Bay Transportation Authority, Assessment Bonds, Series 2000A, 5.250%, 7/01/30
- 385 Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds, Series 2004C, 5.250%, 7/01/21
- 230 Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19 \square MBIA Insured
- 250 Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31 \square AMBAC Insured
- 550 Massachusetts College Building Authority, Project Revenue Bonds, Series 2008A, 5.000%, 5/01/33 (WI/DD, Settling 3/12/08) \square AGC Insured
- 500 Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2005A, 5.000%, 8/15/20 \square FSA Insured
- 500 Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2007A, 4.750%, 8/15/32 \square AMBAC Insured
- 230 Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2005, 5.000%, 1/01/20 \square FGIC Insured
- 500 Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Series 1999A, 6.375%, 10/01/19

3,625 Total Tax Obligation/Limited

Transportation \square **4.3% (2.8% of Total Investments)**

- 800 Massachusetts Port Authority, Revenue Bonds, Series 2005A, 5.000%, 7/01/23 \square AMBAC Insured
- 400 Massachusetts Port Authority, Special Facilities Revenue Bonds, BOSFUEL Corporation, Series 2007, 5.000%, 7/01/32 \square FGIC Insured (Alternative Minimum Tax)

1,200 Total Transportation

U.S. Guaranteed \square **18.2% (11.8% of Total Investments) (4)**

- 1,000 Boston, Massachusetts, General Obligation Bonds, Series 2001A, 5.000%, 2/01/20 (Pre-refunded 2/01/11)
- 1,675 Lawrence, Massachusetts, General Obligation Bonds, Series 2001, 5.000%, 2/01/21 (Pre-refunded

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2/01/11) □ AMBAC Insured

- 125 Massachusetts Bay Transportation Authority, Assessment Bonds, Series 2000A, 5.250%, 7/01/30 (Pre-refunded 7/01/10)
- 80 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Covenant Health Systems Obligated Group, Series 2002, 6.000%, 7/01/31 (Pre-refunded 1/01/12)
- 965 Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare System Inc., Series 2001C, 5.750%, 7/01/32 (Pre-refunded 7/01/11)
- 750 Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2004, 5.250%, 1/01/25 (Pre-refunded 1/01/14) □ FGIC Insured

4,595 Total U.S. Guaranteed

Utilities □ 6.1% (3.9% of Total Investments)

- 1,070 Massachusetts Development Finance Agency, Resource Recovery Revenue Bonds, SEMass System, Series 2001A, 5.625%, 1/01/14 □ MBIA Insured
- 500 Massachusetts Industrial Finance Agency, Resource Recovery Revenue Refunding Bonds, Ogden Haverhill Project, Series 1998A, 5.600%, 12/01/19 (Alternative Minimum Tax)

1,570 Total Utilities

Water and Sewer □ 14.3% (9.3% of Total Investments)

- 530 Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series 2004A, 5.000%, 11/01/25
- 125 Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2005, 6.000%, 7/01/25
- 500 Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 2005-11, 4.500%, 8/01/29
- 400 Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 2006-12, 4.375%, 8/01/31
- 500 Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Series 2002A, 5.250%, 8/01/20
- 1,405 Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Subordinate Series 1999A, 5.750%, 8/01/29
- 250 Massachusetts Water Resources Authority, General Revenue Bonds, Series 2005A, 5.000%, 8/01/28 □ MBIA Insured
- 250 Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/46

3,960 Total Water and Sewer

\$ 41,805 Total Investments (cost \$42,453,500) □ 154.1%

Other Assets Less Liabilities □ 1.5%

Preferred Shares, at Liquidation Value □ (55.6)% (5)

Net Assets Applicable to Common Shares □ 100%

Forward Swaps outstanding at February 29, 2008:

Counterparty	Notional Amount	Fund		Floating Rate Index	Fixed Rate (Annualized)	Fixed Rate Payment Frequency	Effective Date (6)
		Pay/Receive	Floating Rate				
JPMorgan	\$500,000	Pay		3-Month USD-LIBOR	5.388%	Semi-Annually	4/25/08
Royal Bank of Canada	900,000	Pay		SIFM	4.335	Quarterly	8/06/08

USD-LIBOR (United States Dollar-London Inter-Bank Offered Rate)

SIFM The daily arithmetic average of the weekly SIFM (Securities Industry and Financial Markets) Municipal Swap Index.

- (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 higher of Standard & Poor's Group (Standard & Poor's) or Moody's Investor Service, Inc. (Moody's) rating. Ratings below BBB by Standard & Poor's or Baa by Moody's are considered to be below investment grade.

The Portfolio of Investments reflects the ratings on certain bonds insured by AMBAC, CIFG, FGIC, MBIA and XLCA as of February 29, 2008. Subsequent to February 29, 2008, at least one rating agency reduced the rating for AMBAC-insured bonds to AA and at least one rating agency further reduced the ratings for CIFG-insured, FGIC-insured and XLCA-insured bonds. As of February 29, 2008, one or more rating agencies have placed each of these insurers on "negative credit watch", which may presage one or more rating reductions for such insurer or insurers in the future. If one or more insurers' ratings are reduced by these rating agencies, it would likely reduce the effective rating of many of the bonds insured by that insurer or insurers.

- (4) 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.
- (5) Preferred Shares, at Liquidation Value as a percentage of total investments is (36.1)%.
- (6) Effective date represents the date on which both the Fund and counterparty commence interest payment accruals on each forward swap contract.

N/R Not rated.

WI/DD Purchased on a when-issued or delayed delivery basis.

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 the treatment of paydown gains and losses, timing differences in recognizing taxable market discount and timing differences in recognizing certain gains and losses on investment transactions. 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 February 29, 2008, the cost of investments was \$42,430,533.

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMP

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Gross unrealized appreciation and gross unrealized depreciation of investments at February 29, 2008, were as follows:

Gross unrealized:	
Appreciation	\$ 703,785
Depreciation	(1,560,610)
<hr/>	
Net unrealized appreciation (depreciation) of investments	\$ (856,825)

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, 2008

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, 2008

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

Date April 29, 2008