

NUVEEN MASSACHUSETTS DIVIDEND ADVANTAGE MUNICIPAL FUND
Form N-Q
October 30, 2007

**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: 8/31/07

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, 2007

| Principal Amount (000) | Description (1) | Optional Provisions |
|-----------------------------------|------------------------|--------------------------------|
|-----------------------------------|------------------------|--------------------------------|

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Consumer Discretionary □ 1.8% (1.2% of Total Investments)

| | | | |
|----|-----|--|------------|
| \$ | 495 | Boston Industrial Development Financing Authority, Massachusetts, Senior Revenue Bonds, Crosstown Center Project, Series 2002, 6.500%, 9/01/35 (Alternative Minimum Tax) | 9/12 at 10 |
|----|-----|--|------------|

Education and Civic Organizations □ 28.8% (19.2% of Total Investments)

| | | |
|-------|---|------------|
| 450 | Massachusetts Development Finance Agency, Revenue Bonds, Western New England College, Series 2005A, 5.000%, 9/01/33 □ AGC Insured | 9/15 at 10 |
| 450 | Massachusetts Development Finance Agency, Revenue Bonds, Worcester Polytechnic Institute, Series 2007, 5.000%, 9/01/37 □ MBIA Insured | 9/17 at 10 |
| 495 | 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 10 |
| 500 | Massachusetts Development Finance Authority, Revenue Bonds, Milton Academy, Series 2003A, 5.000%, 9/01/19 | 9/13 at 10 |
| 1,000 | Massachusetts Development Finance Authority, Revenue Refunding Bonds, Boston University, Series 1999P, 6.000%, 5/15/59 | 5/29 at 10 |
| 1,085 | Massachusetts Educational Finance Authority, Educational Loan Revenue Bonds, Series 2001E, 5.300%, 1/01/16 □ AMBAC Insured (Alternative Minimum Tax) | 7/10 at 10 |
| 1,000 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Boston College, Series 2003N, 5.250%, 6/01/18 | 6/13 at 10 |
| 2,000 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Tufts University, Series 2001I, 5.500%, 2/15/36 | 2/11 at 10 |
| 590 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Williams College, Series 2007L, 5.000%, 7/01/31 | 7/16 at 10 |
| 250 | University of Massachusetts Building Authority, Senior Lien Project Revenue Bonds, Series 2005-1, 5.000%, 5/01/15 □ AMBAC Insured | No Opt. |

7,820 Total Education and Civic Organizations

Health Care □ 21.8% (14.5% of Total Investments)

| | | |
|-------|---|-------------|
| 500 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Berkshire Health System, Series 2001E, 6.250%, 10/01/31 | 10/11 at 10 |
| 250 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Caritas Christi Obligated Group, Series 1999A, 5.625%, 7/01/20 | 1/09 at 10 |
| 375 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Covenant Health Systems Obligated Group, Series 2002, 6.000%, 7/01/31 | 1/12 at 10 |
| 315 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Emerson Hospital, Series 2005E, 5.000%, 8/15/35 □ RAAI Insured | 8/15 at 10 |
| 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 10 |
| 1,000 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Lahey Medical Center, Series 2007D, 5.250%, 8/15/28 | 8/17 at 10 |
| 290 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milford Regional Medical Center, Series 2007E, 5.000%, 7/15/32 | 7/17 at 10 |
| 500 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Milton Hospital Project, Series 2005D, 5.250%, 7/01/30 | 7/15 at 10 |
| 500 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Northern Berkshire Community Services Inc., Series 2004B, 6.375%, 7/01/34 | 7/14 at 10 |
| 1,000 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, Partners HealthCare | 7/09 at 10 |

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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 | 7/11 at 10 |
| 500 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial Health Care, Series 2001C, 6.625%, 7/01/32 | 7/11 at 10 |
| 285 | Massachusetts Health and Educational Facilities Authority, Revenue Bonds, UMass Memorial Health Care, Series 2005D, 5.000%, 7/01/33 | 7/15 at 10 |

6,150 Total Health Care

Housing/Multifamily □ 12.2% (8.1% of Total Investments)

| | | |
|-------|--|------------|
| 570 | Massachusetts Development Finance Authority, Multifamily Housing Revenue Bonds, Emerson Manor Project, Series 2007, 4.800%, 7/20/48 | 7/17 at 10 |
| 135 | Massachusetts Housing Finance Agency, Housing Bonds, Series 2006A, 5.100%, 12/01/37 (Alternative Minimum Tax) | 6/15 at 10 |
| 500 | Massachusetts Housing Finance Agency, Housing Revenue Bonds, Series 2003S, 5.050%, 12/01/23 (Alternative Minimum Tax) | 6/13 at 10 |
| 1,215 | Massachusetts Housing Finance Agency, Rental Housing Mortgage Revenue Bonds, Series 2001A, 5.850%, 7/01/35 □ AMBAC Insured (Alternative Minimum Tax) | 1/11 at 10 |
| 1,000 | Somerville Housing Authority, Massachusetts, GNMA Collateralized Mortgage Revenue Bonds, Clarendon Hill Towers, Series 2002, 5.200%, 11/20/22 | 5/12 at 10 |

3,420 Total Housing/Multifamily

Housing/Single Family □ 3.4% (2.3% of Total Investments)

| | | |
|-----|--|------------|
| 395 | Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-122, 4.875%, 12/01/37 (Alternative Minimum Tax) | 6/15 at 10 |
| 650 | Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 2006-126, 4.625%, 6/01/32 (Alternative Minimum Tax) | 6/16 at 10 |

1,045 Total Housing/Single Family

Industrials □ 1.2% (1.0% 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) | No Opt. |
| 200 | Massachusetts Development Finance Agency, Solid Waste Disposal Revenue Bonds, Waste Management Inc., Series 2003, 5.450%, 6/01/14 | No Opt. |

380 Total Industrials

Long-Term Care □ 7.7% (5.1% of Total Investments)

| | | |
|-------|--|-------------|
| 425 | Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.250%, 10/01/26 | 10/12 at 10 |
| 655 | Massachusetts Development Finance Authority, First Mortgage Revenue Bonds, Berkshire Retirement Community □ Edgecombe Project, Series 2001A, 6.750%, 7/01/21 | 7/11 at 10 |
| 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) | 3/12 at 10 |

2,080 Total Long-Term Care

Tax Obligation/General ☐ 17.0% (11.3% of Total Investments)

| | | |
|-------|--|------------|
| 310 | Ashland, Massachusetts, General Obligation Bonds, Series 2004, 5.250%, 5/15/23 ☐ AMBAC Insured | 5/15 at 10 |
| 2,000 | Brookline, Massachusetts, General Obligation Bonds, Series 2000, 5.375%, 4/01/17 | 4/10 at 10 |
| 440 | Fall River, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 2/01/21 ☐ FSA Insured | 2/13 at 10 |
| 750 | Massachusetts, General Obligation Bonds, Consolidated Loan, Series 2002D, 5.500%, 8/01/19 | No Opt. |
| 500 | Norwell, Massachusetts, General Obligation Bonds, Series 2003, 5.000%, 11/15/20 ☐ FGIC Insured | No Opt. |
| 500 | Puerto Rico, General Obligation and Public Improvement Bonds, Series 2001A, 5.500%, 7/01/29 ☐ FGIC Insured | No Opt. |

4,500 Total Tax Obligation/General

Tax Obligation/Limited ☐ 11.3% (7.6% of Total Investments)

| | | |
|-----|---|-------------|
| 395 | Martha's Vineyard Land Bank, Massachusetts, Revenue Bonds, Series 2004, 5.000%, 5/01/26 ☐ AMBAC Insured | 5/14 at 10 |
| 85 | Massachusetts Bay Transportation Authority, Assessment Bonds, Series 2000A, 5.250%, 7/01/30 | 7/10 at 10 |
| 385 | Massachusetts Bay Transportation Authority, Senior Lien Sales Tax Revenue Refunding Bonds, Series 2004C, 5.250%, 7/01/21 | No Opt. |
| 230 | Massachusetts College Building Authority, Project Revenue Bonds, Series 2004A, 5.000%, 5/01/19 ☐ MBIA Insured | 5/14 at 10 |
| 250 | Massachusetts College Building Authority, Project Revenue Bonds, Series 2006A, 5.000%, 5/01/31 ☐ AMBAC Insured | 5/16 at 10 |
| 500 | Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2005A, 5.000%, 8/15/20 ☐ FSA Insured | 8/15 at 10 |
| 500 | Massachusetts School Building Authority, Dedicated Sales Tax Revenue Bonds, Series 2007A, 4.750%, 8/15/32 ☐ AMBAC Insured | 8/17 at 10 |
| 230 | Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2005, 5.000%, 1/01/20 ☐ FGIC Insured | No Opt. |
| 500 | Virgin Islands Public Finance Authority, Gross Receipts Taxes Loan Note, Series 1999A, 6.375%, 10/01/19 | 10/10 at 10 |

3,075 Total Tax Obligation/Limited

Transportation ☐ 4.3% (2.9% of Total Investments)

| | | |
|-----|--|------------|
| 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 10 |
| 800 | Massachusetts Port Authority, Revenue Bonds, Series 2005A, 5.000%, 7/01/23 ☐ AMBAC Insured | 7/15 at 10 |

1,200 Total Transportation

U.S. Guaranteed ☐ 17.8% (11.9% of Total Investments) (4)

| | | |
|-------|--|------------|
| 1,000 | Boston, Massachusetts, General Obligation Bonds, Series 2001A, 5.000%, 2/01/20 (Pre-refunded 2/01/11) | 2/11 at 10 |
| 1,675 | Lawrence, Massachusetts, General Obligation Bonds, Series 2001, 5.000%, 2/01/21 (Pre-refunded 2/01/11) ☐ AMBAC Insured | 2/11 at 10 |
| 125 | Massachusetts Bay Transportation Authority, Assessment Bonds, Series 2000A, 5.250%, 7/01/30 | 7/10 at 10 |

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(Pre-refunded 7/01/10)

| | | |
|-----|---|-------------|
| 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) | 7/11 at 10 |
| 750 | Massachusetts, Special Obligation Dedicated Tax Revenue Bonds, Series 2004, 5.250%, 1/01/25 (Pre-refunded 1/01/14) ☐ FGIC Insured | 1/14 at 10 |
| 250 | University of Massachusetts Building Authority, Senior Lien Project Revenue Bonds, Series 2004-1, 5.250%, 11/01/24 (Pre-refunded 11/01/14) ☐ AMBAC Insured | 11/14 at 10 |

4,765 Total U.S. Guaranteed

Utilities ☐ 5.9% (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 | 1/12 at 10 |
| 500 | Massachusetts Industrial Finance Agency, Resource Recovery Revenue Refunding Bonds, Ogden Haverhill Project, Series 1998A, 5.600%, 12/01/19 (Alternative Minimum Tax) | 12/08 at 10 |

1,570 Total Utilities

Water and Sewer ☐ 14.0% (9.4% of Total Investments)

| | | |
|-------|--|-------------|
| 530 | Boston Water and Sewerage Commission, Massachusetts, General Revenue Bonds, Senior Series 2004A, 5.000%, 11/01/25 | 11/14 at 10 |
| 125 | Guam Government Waterworks Authority, Water and Wastewater System Revenue Bonds, Series 2005, 6.000%, 7/01/25 | 7/15 at 10 |
| 500 | Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 11, 4.500%, 8/01/29 | 8/15 at 10 |
| 400 | Massachusetts Water Pollution Abatement Trust, Pooled Loan Program Bonds, Series 12, 4.375%, 8/01/31 | 8/16 at 10 |
| 500 | Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Series 2002A, 5.250%, 8/01/20 | 8/12 at 10 |
| 1,405 | Massachusetts Water Pollution Abatement Trust, Revenue Bonds, MWRA Loan Program, Subordinate Series 1999A, 5.750%, 8/01/29 | 8/09 at 10 |
| 250 | Massachusetts Water Resources Authority, General Revenue Bonds, Series 2005A, 5.000%, 8/01/28 ☐ MBIA Insured | 8/17 at 10 |
| 250 | Massachusetts Water Resources Authority, General Revenue Bonds, Series 2006A, 4.000%, 8/01/46 | 8/16 at 10 |

3,960 Total Water and Sewer

\$ 40,460 Total Long-Term Investments (cost \$41,190,384) ☐ 147.2%

Short-Term Investments ☐ 2.5% (1.6% of Total Investments)

\$ 700 Puerto Rico Government Development Bank, Adjustable Refunding Bonds, Variable Rate Demand Obligations, Series 1985, 3.730%, 12/01/15 ☐ MBIA Insured (5)

Total Short-Term Investments (cost \$700,000)

Total Investments (cost \$41,890,384) ☐ 149.7%

Other Assets Less Liabilities □ 3.2%

Preferred Shares, at Liquidation Value □ (52.9)%

Net Assets Applicable to Common Shares □ 100%

Forward Swaps outstanding at August 31, 2007:

| Counterparty | Notional Amount | Fund Pay/Receive Floating Rate | Floating Rate Index | Fixed Rate (Annualized) | Fixed Rate Payment Frequency | Effective Date (6) | Termination Date | Unrealized Appreciation (Depreciation) |
|----------------------|-----------------|--------------------------------|---------------------|-------------------------|------------------------------|--------------------|------------------|--|
| JPMorgan | \$500,000 | Pay | 3-Month USD-LIBOR | 5.388% | Semi-Annually | 4/25/08 | 4/25/35 | |
| Royal Bank of Canada | 900,000 | Pay | SIFM | 4.335 | Quarterly | 8/06/08 | 8/06/37 | |

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 or Moody's rating. Ratings below BBB by Standard & Poor's Group or Baa by Moody's Investor Service, Inc. are considered to be below investment grade.
- (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) Investment has a maturity of more than one year, but has variable rate and demand features which qualify it as a short-term investment. The rate disclosed is that in effect at the end of the reporting period. This rate changes periodically based on market conditions or a specified market index.
- (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.

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.

At August 31, 2007, the cost of investments was \$41,870,166.

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Gross unrealized appreciation and gross unrealized depreciation of investments at August 31, 2007, were as follows:

| | |
|---|-------------|
| Gross unrealized: | |
| Appreciation | \$1,010,776 |
| Depreciation | (421,538) |
| <hr/> | |
| Net unrealized appreciation (depreciation) of investments | \$ 589,238 |

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: 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 30, 2007

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
&n