NUVEEN SELECT MATURITIES MUNICIPAL FUND Form N-Q March 01, 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 811-7056

Nuveen Select Maturities 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: 3/31

Date of reporting period: 12/31/09

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 Select Maturities Municipal Fund (NIM) December 31, 2009

Principal

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Amount (000) Description (1)

Alabama – 2.5%

- 2,000 Alabama 21st Century Authority, Tobacco Settlement Revenue Bonds, Series 2001, 5.750%, 12/01/17
  - 180 Birmingham Special Care Facilities Financing Authority, Alabama, Revenue Bonds, Baptist Health System Inc., Series 2005A, 5.000%, 11/15/30
  - 500 Jefferson County, Alabama, Sewer Revenue Refunding Warrants, Series 2003B, 5.250%, 2/01/12 FSA Insured
  - 500 Marshall County Healthcare Authority, Alabama, Revenue Bonds, Series 2002A, 6.250%, 1/01/22
  - 3,180 Total Alabama

Arizona – 1.0%

Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Series 2007:

- 100 5.000%, 12/01/17
- 85 5.250%, 12/01/19
- 35 5.000%, 12/01/32
- 380 5.000%, 12/01/37
- 750 Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007, 4.500%, 4/01/17
- 1,350 Total Arizona Arkansas – 4.1%
- 1,000 Fort Smith, Arkansas, Water and Sewer Revenue Refunding and Construction Bonds, Series 2002A, 5.250%, 10/01/17 (Pre-refunded 10/01/11) FSA Insured
- 1,500 Jefferson County, Arkansas, Pollution Control Revenue Bonds, Entergy Arkansas Inc. Project, Series 2006, 4.600%, 10/01/17
- 1,000 Jonesboro, Arkansas, Industrial Development Revenue Bonds, Anheuser Busch Inc. Project, Series 2002, 4.600%, 11/15/12
- 1,380 North Little Rock, Arkansas, Electric Revenue Refunding Bonds, Series 1992A, 6.500%, 7/01/15 NPFG Insured
- 4,880 Total Arkansas

California – 1.1%

- 400 California Health Facilities Financing Authority, Revenue Bonds, Catholic Healthcare West, Series 2008H, 5.125%, 7/01/22
- 255 Golden State Tobacco Securitization Corporation, California, Enhanced Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 4.500%, 6/01/27
- 2,000 Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/25 -

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AGC Insured

- 2,655 Total California Colorado – 12.1%
- 2,895 Centennial Downs Metropolitan District, Colorado, General Obligation Bonds, Series 1999, 5.000%, 12/01/20 AMBAC Insured
- 1,200 Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Douglas County School District RE-1 – DCS Montessori School, Series 2002A, 6.000%, 7/15/22
- 1,175 Colorado Educational and Cultural Facilities Authority, Revenue Bonds, Classical Academy Charter School, Series 2003, 4.500%, 12/01/18 – SYNCORA GTY Insured
  - 245 Colorado Housing Finance Authority, Single Family Program Senior Bonds, Series 2000D-2, 6.900%, 4/01/29 (Alternative Minimum Tax)
- 1,025 Denver Health and Hospitals Authority, Colorado, Healthcare Revenue Bonds, Series 2001A, 6.000%, 12/01/23 (Pre-refunded 12/01/11)
- 1,465 Denver West Metropolitan District, Colorado, General Obligation Refunding and Improvement Bonds, Series 2003, 4.500%, 12/01/18 – RAAI Insured
- 1,500 E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2007C-2, 5.000%,
   9/01/39 (Mandatory put 9/01/13) NPFG Insured
- 1,000 E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 NPFG Insured
  - 70 Northwest Parkway Public Highway Authority, Colorado, Revenue Bonds, Senior Series 2001A,
     5.250%, 6/15/41 (Pre-refunded 6/15/11) FSA Insured
- 5,875 Northwest Parkway Public Highway Authority, Colorado, Senior Lien Revenue Bonds, Series 2001B, 0.000%, 6/15/27 (Pre-refunded 6/15/11) – AMBAC Insured
- 2,845 University of Colorado Hospital Authority, Revenue Bonds, Series 2001A, 5.600%, 11/15/21 (Pre-refunded 11/15/11)
- 19,295 Total Colorado
  - Connecticut 1.5%

Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A:

- 335 5.500%, 1/01/14 (Alternative Minimum Tax)
- 1,570 5.500%, 1/01/15 (Alternative Minimum Tax)
- 1,905 Total Connecticut Florida – 5.6%
- 2,400 Deltona, Florida, Utility Systems Water and Sewer Revenue Bonds, Series 2003, 5.250%, 10/01/17 NPFG Insured
- 1,000 Florida Citizens Property Insurance Corporation, High Risk Account Revenue Bonds, Series 2007A, 5.000%, 3/01/15 – NPFG Insured
  - 600 Florida Department of Environmental Protection, Florida Forever Revenue Bonds, Series 2007B,
     5.000%, 7/01/19 NPFG Insured
    - 45 JEA, Florida, Electric Revenue Certificates, Series 1973-2, 6.800%, 7/01/12 (ETM)
- 2,000 Orange County, Florida, Tourist Development Tax Revenue Bonds, Series 2005, 5.000%, 10/01/22 -

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AMBAC Insured

- 265 Port Everglades Authority, Florida, Port Facilities Revenue Bonds, Series 1986, 7.125%, 11/01/16 (ETM)
- 500 South Miami Health Facilities Authority, Florida, Hospital Revenue, Baptist Health System Obligation Group, Series 2007, 5.000%, 8/15/27
- 6,810 Total Florida

Georgia – 0.4%

- 405 Cherokee County Water and Sewerage Authority, Georgia, Revenue Bonds, Series 1995, 5.200%,
  8/01/25 (Pre-refunded 8/01/22) MBIA Insured Idaho – 0.1%
- Madison County, Idaho, Hospital Revenue Certificates of Participation, Madison Memorial Hospital, Series 2006, 5.250%, 9/01/37 Illinois – 14.0%
- 550 Chicago, Illinois, Tax Increment Allocation Bonds, Irving/Cicero Redevelopment Project, Series 1998, 7.000%, 1/01/14
- 1,500 Cook County Township High School District 208, Illinois, General Obligation Bonds, Series 2006, 5.000%, 12/01/21 – NPFG Insured
- 2,000 Huntley, Illinois, Special Service Area 9, Special Tax Bonds, Series 2007, 5.100%, 3/01/28 AGC Insured
- 4,800 Illinois Development Finance Authority, GNMA Collateralized Mortgage Revenue Bonds, Greek American Nursing Home Committee, Series 2000A, 7.600%, 4/20/40
- 2,000 Illinois Development Finance Authority, Revenue Refunding Bonds, Olin Corporation, Series 1993D, 6.750%, 3/01/16
- 2,000 Illinois Educational Facilities Authority, Revenue Bonds, Art Institute of Chicago, Series 2000, 4.450%, 3/01/34 (Mandatory put 3/01/15)
- 1,000 Illinois Educational Facilities Authority, Student Housing Revenue Bonds, Educational Advancement Foundation Fund, University Center Project, Series 2002, 6.625%, 5/01/17 (Pre-refunded 5/01/12)
  - 250 Illinois Finance Authority, Revenue Bonds, Roosevelt University, Series 2007, 5.250%, 4/01/22
  - 25 Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2000,
     6.350%, 5/15/15 (Pre-refunded 5/15/10)
  - 20 Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2002, 5.250%, 5/15/12 (ETM)
  - 70 Illinois Health Facilities Authority, Revenue Bonds, Lutheran General Health System, Series 1993A, 6.125%, 4/01/12 – FSA Insured (ETM)
  - 695 Illinois Health Facilities Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 1999, 5.500%, 8/15/19
- 1,355 Kane & DeKalb Counties, Illinois, Community United School District 301, General Obligation Bonds, Series 2006, 0.000%, 12/01/18 – NPFG Insured
  - Regional Transportation Authority, Cook, DuPage, Kane, Lake, McHenry and Will Counties, Illinois, General Obligation Bonds, Series 1994D, 7.750%, 6/01/19 – FGIC Insured

16,965 Total Illinois

Indiana – 0.4%

- 250 Indiana Finance Authority Educational Facilities Revenue Bonds, Drexel Foundation For Educational Excellence, Inc., Education Facility Project, Series 2009, 6.000%, 10/01/21
- 250 Jasper County, Indiana, Pollution Control Revenue Refunding Bonds, Northern Indiana Public Service Company Project, Series 1994A Remarketed, 5.850%, 4/01/19 – MBIA Insured
- 500 Total Indiana Iowa – 2.2%
- 1,000 Iowa Finance Authority, Healthcare Revenue Bonds, Genesis Medical Center, Series 2000, 6.250%, 7/01/25
- 1,725 Iowa Tobacco Settlement Authority, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2001B, 5.300%, 6/01/25 (Pre-refunded 6/01/11)
- 2,725 Total Iowa

Kansas - 3.0%

- 3,500 Wichita, Kansas, Hospital Facilities Revenue Refunding and Improvement Bonds, Via Christi Health System Inc., Series 2001-III, 5.500%, 11/15/21
  - 250 Wyandotte County-Kansas City Unified Government, Kansas, Sales Tax Special Obligation Bonds, Redevelopment Project Area B, Series 2005, 5.000%, 12/01/20
- 3,750 Total Kansas

Kentucky – 1.1%

- 325 Kentucky Economic Development Finance Authority, Louisville Arena Project Revenue Bonds, Louisville Arena Authority, Inc., Series 2008A-1, 5.750%, 12/01/28 – AGC Insured
- 1,060 Kentucky Housing Corporation, Housing Revenue Bonds, Series 2005G, 5.000%, 7/01/30 (Alternative Minimum Tax)
- 1,385 Total Kentucky Louisiana – 1.4%
- 1,010 Louisiana Public Facilities Authority, Revenue Bonds, Baton Rouge General Hospital, Series 2004, 5.250%, 7/01/24 – NPFG Insured

Tobacco Settlement Financing Corporation, Louisiana, Tobacco Settlement Asset-Backed Bonds, Series 2001B:

- 560 5.500%, 5/15/30
- 245 5.875%, 5/15/39
- 1,815 Total Louisiana Maryland – 0.9%
- 1,100 Maryland Energy Financing Administration, Revenue Bonds, AES Warrior Run Project, Series 1995,
   7.400%, 9/01/19 (Alternative Minimum Tax) Massachusetts – 2.0%
  - 500 Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.000%, 10/01/19
- 1,510 Massachusetts Housing Finance Agency, Rental Housing Mortgage Revenue Bonds, Series 2000H, 6.650%, 7/01/41 NPFG Insured (Alternative Minimum Tax)

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- Massachusetts Housing Finance Agency, Single Family Housing Revenue Bonds, Series 84, 5.000%, 12/01/13 (Alternative Minimum Tax)
   Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A:
- 100 5.200%, 1/01/20 AMBAC Insured (Alternative Minimum Tax)
- 435 5.000%, 1/01/27 AMBAC Insured (Alternative Minimum Tax)
- 2,735 Total Massachusetts

Michigan-1.2%

- 1,000 Cornell Township Economic Development Corporation, Michigan, Environmental Improvement Revenue Refunding Bonds, MeadWestvaco Corporation-Escanaba Project, Series 2002, 5.875%, 5/01/18 (Pre-refunded 5/01/12)
  - 445 Michigan State Hospital Finance Authority, Hospital Revenue Refunding Bonds, Sinai Hospital, Series 1995, 6.625%, 1/01/16
- 1,445 Total Michigan Minnesota – 1.6%
- 1,100 Becker, Minnesota, Pollution Control Revenue Bonds, Northern States Power Company, Series 1993A, 8.500%, 9/01/19
  - 250 Northern Municipal Power Agency, Minnesota, Electric System Revenue Bonds, Refunding Series 2009A, 5.000%, 1/01/15 AGC Insured
  - 440 White Earth Band of Chippewa Indians, Minnesota, Revenue Bonds, Series 2000A, 7.000%, 12/01/11 ACA Insured
- 1,790 Total Minnesota
  - Mississippi-0.6%

Mississippi Hospital Equipment and Facilities Authority, Revenue Bonds, Baptist Memorial Healthcare, Series 2004B-1:

- 280 5.000%, 9/01/16
- 300 5.000%, 9/01/24
- 250 Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company, Series 2006A, 4.800%, 8/01/30
- 830 Total Mississippi Montana – 0.1%
- 60 University of Montana, Revenue Bonds, Series 1996D, 5.375%, 5/15/19 MBIA Insured (ETM) Nebraska – 0.9%
- 1,000 Dodge County School District 1, Nebraska, Fremont Public Schools, General Obligation Bonds, Series 2004, 5.000%, 12/15/19 – FSA Insured Nevada – 0.4%

Director of Nevada State Department of Business and Industry, Revenue Bonds, Las Vegas Monorail Project, First Tier, Series 2000:

- 800 0.000%, 1/01/15 AMBAC Insured
- 35 0.000%, 1/01/16 AMBAC Insured
- 120 0.000%, 1/01/18 AMBAC Insured

- 50 0.000%, 1/01/20 AMBAC Insured
- 250 Las Vegas Redevelopment Agency, Nevada, Tax Increment Revenue Bonds, Series 2009A, 8.000%, 6/15/30
- 1,255 Total Nevada

New Jersey -0.6%

- 410 Bayonne Redevelopment Agency, New Jersey, Revenue Bonds, Royal Caribbean Cruises Project, Series 2006A, 4.750%, 11/01/16 (Alternative Minimum Tax)
- 445 Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 4.500%, 6/01/23
- 855 Total New Jersey New York – 6.3%
- 220 Brooklyn Areba Local Development Corporation, New York, Payment in Lieu of Taxes Revenue Bonds, Barclays Center Project, Series 2009, 6.000%, 7/15/30
- 1,000 Dormitory Authority of the State of New York, Revenue Bonds, Brooklyn Law School, Series 2003A, 5.500%, 7/01/15 RAAI Insured
  - 240 New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Special Needs Facilities Pooled Program, Series 2008A-1, 5.700%, 7/01/13
- 1,500 New York State Energy Research and Development Authority, Facilities Revenue Bonds, Consolidated Edison Company Inc., Series 2001A, 4.700%, 6/01/36 (Mandatory put 10/01/12) (Alternative Minimum Tax)
  - 195 New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003A-1, 5.250%, 6/01/20 – AMBAC Insured, DD
  - 50 New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003B-1C, 5.500%, 6/01/22 (WI/DD, Settling 1/04/10)
- 4,300 Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air Terminal LLC, Sixth Series 1997, 7.000%, 12/01/12 – NPFG Insured (Alternative Minimum Tax)
- 7,505 Total New York North Carolina – 1.6%
- 1,880 Union County, North Carolina, Certificates of Participation, Series 2003, 5.000%, 6/01/18 –
   AMBAC Insured
   Ohio 1.4%
- 775 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2, 5.125%, 6/01/24
- 1,000 Toledo-Lucas County Port Authority, Ohio, Port Revenue Bonds, Cargill Inc., Series 2004B, 4.500%, 12/01/15
- 1,775 Total Ohio
  - Pennsylvania 7.5%
  - 200 Luzerne County Industrial Development Authority, Pennsylvania, Guaranteed Lease Revenue Bonds, Series 2009, 7.750%, 12/15/27

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- 400 Pennsylvania Economic Development Financing Authority, Pollution Control Revenue Bonds,
   PPL Electric Utilities Corporation, Refunding Series 2008, 4.850%, 10/01/23 (Mandatory put 10/01/10)
- 895 Pennsylvania Higher Educational Facilities Authority, College Revenue Bonds, Ninth Series 1976, 7.625%, 7/01/15 (ETM)
- 225 Pennsylvania Higher Educational Facilities Authority, Revenue Bonds, University of the Arts, Series 1999, 5.150%, 3/15/20 RAAI Insured (ETM)
- 4,120 Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Eighteenth Series 2004, 5.000%, 8/01/15 AMBAC Insured
- 1,535 Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Twelfth Series 1990B, 7.000%, 5/15/20 MBIA Insured (ETM)
  - 250 Philadelphia Hospitals and Higher Education Facilities Authority, Pennsylvania, Hospital Revenue Bonds, Temple University Hospital, Series 1993A, 6.625%, 11/15/23
- 1,085 Pittsburgh School District, Allegheny County, Pennsylvania, General Obligation Bonds, Series 2006B, 5.000%, 9/01/12 AMBAC Insured
- 8,710 Total Pennsylvania Puerto Rico – 0.6%
- 1,000 Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 0.000%, 8/01/32
   Phode Island = 0.7%

Rhode Island – 0.7%

Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2002A:

- 200 6.125%, 6/01/32
- 725 6.250%, 6/01/42
- 925 Total Rhode Island South Carolina – 5.5%
- 750 Berkeley County School District, South Carolina, Installment Purchase Revenue Bonds, Securing Assets for Education, Series 2003, 5.250%, 12/01/19
- 1,540 Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%,
   1/01/19 FGIC Insured (ETM)
- 2,835 Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 FGIC Insured
  - 5 South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon Secours Health System Inc., Series 2002A, 5.625%, 11/15/30 (Pre-refunded 11/15/12)
  - 20 South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon Secours Health System Inc., Series 2002B, 5.625%, 11/15/30
  - 450 South Carolina JOBS Economic Development Authority, Hospital Revenue Bonds, Palmetto Health Alliance, Series 2000A, 7.000%, 12/15/10 (ETM)
  - 325 Tobacco Settlement Revenue Management Authority, South Carolina, Tobacco Settlement

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