

NUVEEN ARIZONA DIVIDEND ADVANTAGE MUNICIPAL FUND 3
Form N-Q
December 28, 2006

**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 811-21157

Nuveen Arizona Dividend Advantage Municipal Fund 3

(Exact name of registrant as specified in charter)

333 West Wacker Drive, Chicago, Illinois 60606

(Address of principal executive offices) (Zip code)

Jessica R. Droeger 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: 07/31

Date of reporting period: 10/31/06

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 Arizona Dividend Advantage Municipal Fund 3 (NXE)

October 31, 2006

Principal	Optional Cal
Amount (000) Description (1)	Provisions (2)

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Consumer Staples □ 1.4% (0.9% of Total Investments)

\$	570	Puerto Rico, The Children's Trust Fund, Tobacco Settlement Asset-Backed Refunding Bonds, Series 2002, 5.375%, 5/15/33	5/12 at 100.00
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Education and Civic Organizations □ 16.0% (10.8% of Total Investments)

1,250	Arizona State University, System Revenue Bonds, Series 2005, 5.000%, 7/01/20 □ AMBAC Insured	7/15 at 100.00
1,000	Arizona Student Loan Acquisition Authority, Student Loan Revenue Refunding Bonds, Senior Series 1999A-1, 5.750%, 5/01/15 (Alternative Minimum Tax)	11/09 at 102.00
1,130	Energy Management Services LLC, Arizona State University, Energy Conservation Revenue Bonds, Main Campus Project, Series 2002, 5.250%, 7/01/18 □ MBIA Insured	7/12 at 100.00
270	Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University, Series 1998A, 5.375%, 5/15/28	5/08 at 101.00
540	Pima County Industrial Development Authority, Arizona, Charter School Revenue Bonds, Noah Webster Basic Schools Inc., Series 2004, 6.000%, 12/15/24	12/14 at 100.00
565	Tucson Industrial Development Authority, Arizona, Charter School Revenue Bonds, Arizona Agribusiness and Equine Center Charter School, Series 2004A, 6.125%, 9/01/34	9/14 at 100.00
2,000	University of Arizona, Certificates of Participation, Series 2002B, 5.125%, 6/01/20 □ AMBAC Insured	6/12 at 100.00
6,755	Total Education and Civic Organizations	

Health Care □ 18.1% (12.2% of Total Investments)

300	Arizona Health Facilities Authority, Hospital Revenue Bonds, Catholic Healthcare West, Series 1999A, 6.625%, 7/01/20 Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Series 1999A:	7/10 at 101.00
350	6.125%, 11/15/22	11/09 at 100.00
520	6.250%, 11/15/29	11/09 at 100.00
625	Arizona Health Facilities Authority, Revenue Bonds, Blood Systems Inc., Series 2004, 5.000%, 4/01/20	4/14 at 100.00
475	Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln Health Network, Series 2005B, 5.000%, 12/01/37	12/15 at 100.00
390	Maricopa County Industrial Development Authority, Arizona, Health Facilities Revenue Bonds, Mayo Clinic, Series 2006, 5.000%, 11/15/36	5/16 at 100.00
1,825	Maricopa County Industrial Development Authority, Arizona, Health Facility Revenue Bonds, Catholic Healthcare West, Series 2004A, 5.375%, 7/01/23	7/14 at 100.00
2,000	Maricopa County Industrial Development Authority, Arizona, Hospital Revenue Bonds, Mayo Clinic Hospital, Series 1998, 5.250%, 11/15/37	5/08 at 101.00
270	Maricopa County, Arizona, Hospital Revenue Bonds, Sun Health Corporation, Series 2005, 5.000%, 4/01/16	4/15 at 100.00
1,000	Yavapai County Industrial Development Authority, Arizona, Hospital Revenue Bonds, Yavapai Regional Medical Center, Series 2003A, 6.000%, 8/01/33	8/13 at 100.00
7,755	Total Health Care	

Housing/Multifamily □ 4.6% (3.0% of Total Investments)

1,545	Phoenix Industrial Development Authority, Arizona, GNMA Collateralized Multifamily Housing Revenue Bonds, Campaigne Place on Jackson, Series 2001, 5.600%, 6/20/21 (Alternative	6/11 at 102.00
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Minimum Tax)

380 Phoenix Industrial Development Authority, Arizona, GNMA Collateralized Multifamily Housing Revenue Bonds, Park Lee Apartments, Series 2004A, 5.050%, 10/20/44 (Alternative Minimum Tax) 4/15 at 100.00

1,925 Total Housing/Multifamily

Industrials □ 2.2% (1.4% of Total Investments)

945 Yavapai County Industrial Development Authority, Arizona, Solid Waste Disposal Revenue Bonds, Waste Management Inc., Series 2003B, 4.450%, 3/01/28 (Mandatory put 3/01/08) (Alternative Minimum Tax) 3/28 at 100.00

Tax Obligation/General □ 11.9% (8.0% of Total Investments)

660 Chandler, Arizona, General Obligation Bonds, Series 2002, 5.000%, 7/01/18 7/12 at 100.00
 1,930 Glendale, Arizona, General Obligation Refunding Bonds, Series 2002, 5.000%, 7/01/19 7/11 at 100.00
 445 Maricopa County Union High School District 210 Phoenix, Arizona, General Obligation Bonds, Series 2006C, 5.000%, 7/01/24 □ MBIA Insured 7/16 at 100.00
 1,575 Maricopa County Union High School District 210, Phoenix, Arizona, General Obligation Bonds, Series 2004A, 5.000%, 7/01/20 □ FSA Insured 7/14 at 100.00
 440 Tucson, Arizona, General Obligation Bonds, Series 2001B, 5.000%, 7/01/20 7/11 at 100.00

5,050 Total Tax Obligation/General

Tax Obligation/Limited □ 47.5% (32.1% of Total Investments)

3,000 Arizona State Transportation Board, Highway Revenue Refunding Bonds, Series 2002A, 5.250%, 7/01/18 7/12 at 102.00
 2,660 Arizona Tourism and Sports Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Series 2003A, 5.375%, 7/01/20 □ MBIA Insured 7/13 at 100.00
 158 Centerra Community Facilities District, Goodyear, Arizona, General Obligation Bonds, Series 2005, 5.500%, 7/15/29 7/15 at 100.00
 2,250 DC Ranch Community Facilities District, Scottsdale, Arizona, General Obligation Bonds, Series 2002, 5.000%, 7/15/27 □ AMBAC Insured 7/13 at 100.00
 346 Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25 7/10 at 102.00
 800 Goodyear Community Facilities Utility District 1, Arizona, General Obligation Bonds, Series 2003, 5.350%, 7/15/28 □ ACA Insured 7/13 at 100.00
 525 Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006A, 5.000%, 8/01/23 □ MBIA Insured 8/16 at 100.00
 2,000 Mohave County, Arizona, Certificates of Participation, Series 2004, 5.250%, 7/01/19 □ AMBAC Insured 7/14 at 100.00
 640 Palm Valley Community Facility District 3, Goodyear, Arizona, General Obligation Bonds, Series 2006, 5.300%, 7/15/31 7/16 at 100.00
 160 Parkway Community Facilities District 1, Prescott Vallet, Arizona, General Obligation Bonds, Series 2006, 5.350%, 7/15/31 7/16 at 100.00
 1,250 Pinal County Industrial Development Authority, Arizona, Correctional Facilities Contract Revenue Bonds, Florence West Prison LLC, Series 2002A, 5.000%, 10/01/18 □ ACA Insured No Opt. Cal
 1,130 San Luis Civic Improvement Corporation, Arizona, Municipal Facilities Excise Tax Revenue Bonds, Series 2005, 5.000%, 7/01/25 □ XLCA Insured 7/15 at 100.00
 2,770 Tempe, Arizona, Excise Tax Revenue Refunding Bonds, Series 2003, 5.000%, 7/01/22 7/13 at 100.00

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1,250	Vistancia Community Facilities District, Arizona, Restricted General Obligation Bonds, Series 2005, 5.750%, 7/15/24	7/15 at 100.00
665	Watson Road Community Facilities District, Arizona, Special Assessment Revenue Bonds, Series 2005, 6.000%, 7/01/30	7/16 at 100.00
425	Westpark Community Facilities District, Buckeye, Arizona, General Obligation Tax Increment Bonds Series 2006, 5.250%, 7/15/31	7/16 at 100.00

20,029 Total Tax Obligation/Limited

Transportation □ 13.4% (9.1% of Total Investments)

Phoenix, Arizona, Civic Improvement Corporation, Senior Lien Airport Revenue Bonds, Series 2002B:

1,000	5.750%, 7/01/16 □ FGIC Insured (Alternative Minimum Tax)	7/12 at 100.00
2,300	5.250%, 7/01/21 □ FGIC Insured (Alternative Minimum Tax)	7/12 at 100.00
2,450	Tucson Airport Authority Inc., Arizona, Revenue Refunding Bonds, Series 2001B, 5.000%, 6/01/20 □ AMBAC Insured (Alternative Minimum Tax)	6/11 at 100.00

5,750 Total Transportation

U.S. Guaranteed □ 9.9% (6.7% of Total Investments) (4)

1,000	Arizona Health Facilities Authority, Hospital System Revenue Bonds, John C. Lincoln Health Network, Series 2000, 6.875%, 12/01/20 (Pre-refunded 12/01/10)	12/10 at 102.00
1,760	Arizona State University, System Revenue Bonds, Series 2002, 5.750%, 7/01/27 (Pre-refunded 7/01/12) □ FGIC Insured	7/12 at 100.00
1,250	Scottsdale Industrial Development Authority, Arizona, Hospital Revenue Bonds, Scottsdale Healthcare, Series 2001, 5.800%, 12/01/31 (Pre-refunded 12/01/11)	12/11 at 101.00

4,010 Total U.S. Guaranteed

Utilities □ 12.2% (8.3% of Total Investments)

1,250	Maricopa County Pollution Control Corporation, Arizona, Revenue Bonds, Arizona Public Service Company □ Palo Verde Project, Series 2002A, 5.050%, 5/01/29 □ AMBAC Insured	11/12 at 100.00
1,660	5.000%, 7/01/26 □ XLCA Insured	7/15 at 100.00
935	5.000%, 7/01/27 □ XLCA Insured	7/15 at 100.00
	Salt River Project Agricultural Improvement and Power District, Arizona, Electric System Revenue Bonds, Series 2002B:	
360	5.000%, 1/01/22	1/13 at 100.00
1,000	5.000%, 1/01/31	1/13 at 100.00

5,205 Total Utilities

Water and Sewer □ 11.1% (7.5% of Total Investments)

405	Oro Valley Municipal Property Corporation, Arizona, Senior Lien Water Revenue Bonds, Series 2003, 5.000%, 7/01/23 □ MBIA Insured	7/13 at 100.00
380	Phoenix Civic Improvement Corporation, Arizona, Junior Lien Wastewater System Revenue Bonds, Series 2004, 5.000%, 7/01/24 □ MBIA Insured	7/14 at 100.00
1,000	Phoenix Civic Improvement Corporation, Arizona, Junior Lien Wastewater System Revenue	7/11 at 100.00

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	Refunding Bonds, Series 2001, 5.125%, 7/01/21 ☐ FGIC Insured	
2,000	Phoenix Civic Improvement Corporation, Arizona, Junior Lien Water System Revenue Bonds, Series 2002, 5.000%, 7/01/18 ☐ FGIC Insured	7/12 at 100.00
920	Phoenix Civic Improvement Corporation, Arizona, Junior Lien Water System Revenue Bonds, Series 2005, 5.000%, 7/01/23 ☐ MBIA Insured	7/15 at 100.00

4,705 Total Water and Sewer

\$ 62,699 Total Investments (cost \$64,236,246) ☐ 148.3%

Other Assets Less Liabilities ☐ 0.6%

Preferred Shares, at Liquidation Value ☐ (48.9)%

Net Assets Applicable to Common Shares ☐ 100%

- (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.

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 October 31, 2006, the cost of investments was \$64,293,497.

Gross unrealized appreciation and gross unrealized depreciation of investments at October 31, 2006, were as follows:

Gross unrealized:

Appreciation	\$2,496,959
Depreciation	(60,293)

Net unrealized appreciation (depreciation) of investments	\$2,436,666
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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 Arizona Dividend Advantage Municipal Fund 3

By (Signature and Title)* /s/ Jessica R. Droeger
Jessica R. Droeger
Vice President and Secretary

Date December 28, 2006

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 December 28, 2006

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

Date December 28, 2006

* Print the name and title of each signing officer under his or her signature.