

NUVEEN ARIZONA PREMIUM INCOME MUNICIPAL FUND INC
Form N-Q
December 30, 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 811-7278

Nuveen Arizona Premium Income Municipal Fund, Inc.
(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: 7/31

Date of reporting period: 10/31/10

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 Arizona Premium Income Municipal Fund, Inc. (NAZ)

October 31, 2010

| Principal Amount (000) | Description (1) | Optional Call Provisions (2) | Ratings (3) | Value |
|---------------------------|---|---------------------------------|----------------|------------|
| | Consumer Staples – 1.2% (0.9% of Total Investments) | | | |
| \$ 765 | 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 | BBB | \$ 767,165 |
| | Education and Civic Organizations – 13.4% (9.7% of Total Investments) | | | |
| 2,500 | Arizona Higher Education Loan Authority, Student Loan Revenue Bonds, Series 2007B, Auction | 3/11 at 100.00 | A | 2,056,150 |
| 1,000 | Rate Securities, 0.660%, 11/01/41 (Alternative Minimum Tax) (4) Arizona State University, System Revenue Bonds, Series 2002, 5.000%, 7/01/25 – FGIC Insured | 7/12 at 100.00 | AA | 1,058,760 |
| 1,455 | Arizona State University, System Revenue Bonds, Series 2005: 5.000%, 7/01/20 – AMBAC Insured | 7/15 at 100.00 | Aa3 | 1,537,324 |
| 750 | 5.000%, 7/01/21 – AMBAC Insured | 7/15 at 100.00 | Aa3 | 785,700 |
| 1,600 | Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University, Series 2010, 5.125%, 5/15/40 | 5/20 at 100.00 | A– | 1,645,584 |
| 1,500 | Tempe Industrial Development Authority, Arizona, Lease Revenue Bonds, Arizona State University | 7/13 at 100.00 | N/R | 1,446,450 |
| 8,805 | Foundation Project, Series 2003, 5.000%, 7/01/34 – AMBAC Insured Total Education and Civic Organizations | | | 8,529,968 |
| | Health Care – 21.9% (15.9% of Total Investments) | | | |
| 1,430 | Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2007A, 5.000%, 1/01/25 | 1/17 at 100.00 | A+ | 1,488,401 |
| 885 | Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2007B, 1.004%, 1/02/37 | 1/17 at 100.00 | A+ | 591,870 |
| 3,470 | Arizona Health Facilities Authority, Hospital Revenue Bonds, Banner Health Systems, Series 2008D, 5.500%, 1/01/38 | 1/18 at 100.00 | A+ | 3,647,907 |
| 675 | Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln Health Network, Series 2005B, 5.000%, 12/01/37 | 12/15 at 100.00 | BBB | 640,447 |
| 1,110 | Glendale Industrial Development Authority, Arizona, Revenue Bonds, John C. Lincoln Health Network, Series 2007, 5.000%, 12/01/42 | 12/17 at 100.00 | BBB | 1,039,393 |

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| | | | | |
|--------|---|--------------------|-----|------------|
| 2,150 | 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 | A | 2,242,063 |
| 2,800 | Maricopa County Industrial Development Authority, Arizona, Health Facility Revenue Bonds, Catholic Healthcare West, Series 2007A, 5.250%, 7/01/32 | 7/17 at 100.00 | A | 2,877,448 |
| 515 | Puerto Rico Industrial, Tourist, Educational, Medical and Environmental Control Facilities Financing Authority, Hospital Revenue Bonds, Hospital de la Concepcion, Series 2000A, 6.375%, 11/15/15 | 11/10 at 101.00 | Aa1 | 522,122 |
| 950 | Winslow Industrial Development Authority, Arizona, Hospital Revenue Bonds, Winslow Memorial Hospital, Series 1998, 5.500%, 6/01/22 | 12/10 at 100.00 | N/R | 940,329 |
| 13,985 | Total Health Care Housing/Single Family – 4.3% (3.1% of Total Investments) | | | 13,989,980 |
| 695 | Phoenix and Pima County Industrial Development Authority, Arizona, Single Family Mortgage Revenue Bonds, Series 2007-4, 5.800%, 12/01/39 (Alternative Minimum Tax) | 7/17 at 103.00 | Aaa | 712,445 |
| 2,010 | Tucson and Pima County Industrial Development Authority, Arizona, Joint Single Family Mortgage Revenue Bonds, Series 2007B, 5.350%, 6/01/47 (Alternative Minimum Tax) | 6/17 at 101.00 | Aaa | 2,048,672 |
| 2,705 | Total Housing/Single Family Tax Obligation/General – 10.7% (7.8% of Total Investments) | | | 2,761,117 |
| 1,265 | Gila County Unified School District 10 Payson, Arizona, School Improvement Bonds, Project 2006, Series 2008B, 5.750%, 7/01/28 | 7/18 at 100.00 | Aa3 | 1,409,058 |
| 1,200 | Maricopa County Unified School District 95 Queen Creek, Arizona, General Obligation Bonds, Series 2008, 5.000%, 7/01/27 – AGM Insured | 7/18 at 100.00 | Aa3 | 1,273,656 |
| 3,530 | Pinal County Unified School District 1, Florence, Arizona, General Obligation Bonds, Series 2008C, 5.250%, 7/01/28 | 7/18 at 100.00 | A | 3,816,424 |
| 330 | Puerto Rico, General Obligation and Public Improvement Bonds, Series 2002A, 5.375%, 7/01/28 | 7/11 at 100.00 | A3 | 331,304 |
| 6,325 | Total Tax Obligation/General Tax Obligation/Limited – 33.2% (24.0% of Total Investments) | | | 6,830,442 |
| 355 | Estrella Mountain Ranch Community Facilities District, Goodyear, Arizona, Special Assessment Lien Bonds, Series 2001A, 7.875%, 7/01/25 | 7/12 at 100.00 | N/R | 362,437 |
| 3,000 | Glendale Western Loop 101 Public Facilities Corporation, Arizona, Third Lien Excise Tax Revenue Bonds, Series 2008B, 6.250%, 7/01/38 | 1/14 at 100.00 | AA | 3,165,600 |
| 1,280 | Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006-1, 5.000%, 8/01/22 – NPMFG Insured | 8/16 at 100.00 | AA– | 1,362,406 |
| 740 | Greater Arizona Development Authority, Infrastructure Revenue Bonds, Series 2006A, 5.000%, 8/01/23 – NPMFG Insured | 8/16 at 100.00 | AA– | 781,048 |

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|--------|---|-----------------|----------|------------|
| 575 | Marana Municipal Property Corporation, Arizona, Revenue Bonds, Series 2003, 5.000%, 7/01/28 – AMBAC Insured | 7/13 at 100.00 | AA | 591,980 |
| 1,511 | Marana, Arizona, Tangerine Farms Road Improvement District Revenue Bonds, Series 2006, 4.600%, 1/01/26 | 7/16 at 100.00 | A2 | 1,499,501 |
| 3,400 | Maricopa County Stadium District, Arizona, Revenue Refunding Bonds, Series 2002, 5.375%, 6/01/18 – AMBAC Insured | 6/12 at 100.00 | N/R | 3,576,256 |
| 3,400 | Mesa, Arizona, Street and Highway User Tax Revenue Bonds, Series 2005, 5.000%, 7/01/24 – AGM Insured | 7/15 at 100.00 | AA+ | 3,631,506 |
| 1,140 | Pinetop Fire District of Navajo County, Arizona, Certificates of Participation, Series 2008, 7.750%, 6/15/29 | 6/16 at 102.00 | A3 | 1,165,445 |
| 1,200 | Prescott Valley Municipal Property Corporation, Arizona, Municipal Facilities Revenue Bonds, Series 2003, 5.000%, 1/01/27 – FGIC Insured | 1/13 at 100.00 | AA– | 1,228,428 |
| 265 | Puerto Rico Public Buildings Authority, Guaranteed Government Facilities Revenue Refunding Bonds, Series 2002D, 5.125%, 7/01/24 | 7/12 at 100.00 | A3 | 266,518 |
| 1,610 | San Luis Civic Improvement Corporation, Arizona, Municipal Facilities Excise Tax Revenue Bonds, Series 2005, 5.000%, 7/01/25 – SYNCORA GTY Insured | 7/15 at 100.00 | A+ | 1,667,831 |
| 1,000 | Scottsdale Municipal Property Corporation, Arizona, Excise Tax Revenue Bonds, Refunding Series 2006, 5.000%, 7/01/24 | No Opt. Call | AAA | 1,195,570 |
| 645 | Vistancia Community Facilities District, Arizona, Restricted General Obligation Bonds, Series 2005, 5.750%, 7/15/24 | 7/15 at 100.00 | A1 | 686,719 |
| 20,121 | Total Tax Obligation/Limited U.S. Guaranteed – 10.5% (7.6% of Total Investments) (5) | | | 21,181,245 |
| 1,000 | Arizona Health Facilities Authority, Hospital System Revenue Bonds, John C. Lincoln Health Network, Series 2000, 7.000%, 12/01/25 (Pre-refunded 12/01/10) | 12/10 at 102.00 | BBB (5) | 1,025,660 |
| 1,250 | Glendale Industrial Development Authority, Arizona, Revenue Bonds, Midwestern University, Series 2001A, 5.875%, 5/15/31 (Pre-refunded 5/15/11) | 5/11 at 101.00 | AAA | 1,300,850 |
| 1,250 | Maricopa County Industrial Development Authority, Arizona, Hospital Revenue Refunding Bonds, Samaritan Health Services, Series 1990A, 7.000%, 12/01/16 – NPMG Insured (ETM) | No Opt. Call | A (5) | 1,521,900 |
| 385 | Maricopa County, Arizona, Hospital Revenue Bonds, Sun Health Corporation, Series 2005, 5.000%, 4/01/16 (Pre-refunded 4/01/15) | 4/15 at 100.00 | N/R (5) | 447,193 |
| 735 | Puerto Rico Public Buildings Authority, Guaranteed Government Facilities Revenue Refunding Bonds, Series 2002D, 5.125%, 7/01/24 (Pre-refunded 7/01/12) | 7/12 at 100.00 | Baa3 (5) | 790,698 |
| 1,500 | 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 | N/R (5) | 1,603,380 |

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|--------|---|---------|------|------------|
| 6,120 | Total U.S. Guaranteed Utilities – 22.3% (16.1% of Total Investments) | | | 6,689,681 |
| | Arizona Power Authority, Special Obligation Power Resource | No Opt. | | |
| 1,000 | Revenue Refunding Crossover Bonds, Hoover Project, Series 2001, 5.250%, 10/01/15 | Call | AA | 1,181,970 |
| | Pima County Industrial Development Authority, Arizona, Revenue | 1/15 at | | |
| 1,340 | Bonds, Tucson Electric Power Company, Refunding Series 2008, 5.750%, 9/01/29 | 100.00 | BBB– | 1,386,793 |
| | Puerto Rico Electric Power Authority, Power Revenue Bonds, Series | 7/15 at | | |
| 2,170 | 2005RR, 5.000%, 7/01/27 – SYNCORA GTY Insured | 100.00 | A3 | 2,227,071 |
| | Salt River Project Agricultural Improvement and Power District, | 1/13 at | | |
| 530 | Arizona, Electric System Revenue Bonds, Series 2002B, 5.000%, 1/01/22 | 100.00 | Aa1 | 580,069 |
| | Salt River Project Agricultural Improvement and Power District, | 1/18 at | | |
| 715 | Arizona, Electric System Revenue Bonds, Tender Option Bond Trust 09-9W, 17.009%, 1/01/38 (IF) | 100.00 | Aa1 | 876,104 |
| | Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007: | | | |
| | | No Opt. | | |
| 4,500 | 5.500%, 12/01/29 | Call | A | 4,673,025 |
| | | No Opt. | | |
| 3,500 | 5.000%, 12/01/37 | Call | A | 3,306,555 |
| 13,755 | Total Utilities | | | 14,231,587 |
| | Water and Sewer – 20.5% (14.9% of Total Investments) | | | |
| | Cottonwood, Arizona, Senior Lien Water System Revenue Bonds, | 7/14 at | | |
| 1,005 | Municipal Property Corporation, Series 2004, 5.000%, 7/01/24 – SYNCORA GTY Insured | 100.00 | A | 1,011,794 |
| | Glendale, Arizona, Water and Sewer Revenue Bonds, Subordinate | 7/13 at | | |
| 3,500 | Lien, Series 2003, 5.000%, 7/01/28 – AMBAC Insured | 100.00 | AA | 3,730,790 |
| | Goodyear, Arizona, Water and Sewer Revenue Obligations, Series | 7/20 at | | |
| 1,425 | 2010, 5.625%, 7/01/39 | 100.00 | A2 | 1,448,256 |
| | Oro Valley Municipal Property Corporation, Arizona, Senior Lien | 7/13 at | | |
| 600 | Water Revenue Bonds, Series 2003, 5.000%, 7/01/23 – NPFQ Insured | 100.00 | AA– | 621,654 |
| | Phoenix Civic Improvement Corporation, Arizona, Junior Lien | 7/14 at | | |
| 1,000 | Wastewater System Revenue Bonds, Series 2004, 5.000%, 7/01/24 – NPFQ Insured | 100.00 | AA+ | 1,054,400 |
| | Phoenix Civic Improvement Corporation, Arizona, Junior Lien Water | 7/12 at | | |
| 1,500 | System Revenue Bonds, Series 2002, 5.000%, 7/01/26 – FGIC Insured | 100.00 | AAA | 1,560,615 |
| | Phoenix Civic Improvement Corporation, Arizona, Junior Lien Water | No Opt. | | |
| 1,250 | System Revenue Refunding Bonds, Series 2001, 5.500%, 7/01/21 – FGIC Insured | Call | AAA | 1,535,450 |
| | Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007: | | | |
| | | 4/14 at | | |
| 600 | 4.700%, 4/01/22 | 100.00 | N/R | 607,164 |

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| | | | | |
|-----------|--|-------------------|-----|--------------|
| 695 | 4.900%, 4/01/32 | 4/17 at 100.00 | N/R | 666,665 |
| | Yuma County Industrial Development Authority, Arizona, Exempt | 12/17 at | | |
| 905 | Revenue Bonds, Far West Water & Sewer Inc. Refunding, Series 2007A, 6.375%, 12/01/37 (Alternative Minimum Tax) | 100.00 | N/R | 856,972 |
| 12,480 | Total Water and Sewer | | | 13,093,760 |
| \$ 85,061 | Total Investments (cost \$82,382,645) – 138.0% | | | 88,074,945 |
| | Other Assets Less Liabilities – 5.7% | | | 3,608,413 |
| | Auction Rate Preferred Shares, at Liquidation Value – (43.7)% (6) | | | (27,875,000) |
| | | | | \$ |
| | Net Assets Applicable to Common Shares – 100% | | | 63,808,358 |

Fair Value Measurements

In determining the fair 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 October 31, 2010:

| | Level 1 | Level 2 | Level 3 | Total |
|-----------------|---------|--------------|-------------|--------------|
| Investments: | | | | |
| Municipal Bonds | \$ — | \$86,018,795 | \$2,056,150 | \$88,074,945 |

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 | \$2,055,600 |
| Gains (losses): | |
| Net realized gains (losses) | — |
| Net change in unrealized appreciation (depreciation) | 550 |
| 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 | \$2,056,150 |

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 October 31, 2010, the cost of investments was \$84,563,625.

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

| | |
|---|--------------|
| Gross unrealized: | |
| Appreciation | \$ 6,418,556 |
| Depreciation | (2,907,236) |
| Net unrealized appreciation (depreciation) of investments | \$ 3,511,320 |

- (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 Directors. 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) Auction Rate Preferred shares, at Liquidation Value as a percentage of Total Investments is 31.6%.
N/R Not rated.
 - (ETM) Escrowed to maturity.
 - (IF) Inverse floating rate investment.
-

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 Arizona Premium Income Municipal Fund, Inc.

By (Signature and Title) /s/ Kevin J. McCarthy
Kevin J. McCarthy
Vice President and Secretary

Date December 30, 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 December 30, 2010

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

Date December 30, 2010