

NUVEEN MISSOURI PREMIUM INCOME MUNICIPAL FUND
Form N-Q
April 29, 2015

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 811-07616

Nuveen Missouri Premium Income 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: 2/28/15

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

Nuveen Missouri Premium Income Municipal
Fund (NOM)
February 28, 2015 (Unaudited)

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 158.7% (100.0% of Total Investments)			
	MUNICIPAL BONDS – 158.7% (100.0% of Total Investments)			
	Consumer Staples – 3.8% (2.4% of Total Investments)			
\$ 1,055	Missouri Development Finance Board, Solid Waste Disposal Revenue Bonds, Procter and Gamble Inc., Series 1999, 5.200%, 3/15/29 (Alternative Minimum Tax)	No Opt. Call	AA–	\$ 1,277,310
	Education and Civic Organizations – 20.9% (13.1% of Total Investments)			
300	Curators of the University of Missouri, System Facilities Revenue Bonds, Refunding Series 2014A, 4.000%, 11/01/33	11/24 at 100.00	AA+	324,765
250	Lincoln University, Missouri, Auxiliary System Revenue Bonds, Series 2007, 5.125%, 6/01/37 – AGC Insured	6/17 at 100.00	AA	261,073
410	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Kansas City University of Medicine and Biosciences, Series 2013A, 5.000%, 6/01/33	6/23 at 100.00	A1	451,914
750	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Saint Louis College of Pharmacy, Series 2013, 5.500%, 5/01/43	5/23 at 100.00	BBB+	831,075
600	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue Bonds, Southwest Baptist University Project, Series 2012, 5.000%, 10/01/33	10/22 at 100.00	BBB–	635,316
725	Missouri Health and Educational Facilities Authority, Educational Facilities Revenue	10/23 at 100.00	A	826,449

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	Bonds, University of Central Missouri, Series 2013C2, 5.000%, 10/01/34 Missouri Health and Educational Facilities Authority, Revenue Bonds, A.T. Still	10/21 at 100.00	A-	699,098
630	University of Health Sciences, Series 2011, 5.250%, 10/01/41 Missouri Health and Educational Facilities Authority, Revenue Bonds, A.T. Still	10/23 at 100.00	A-	578,080
510	University of Health Sciences, Series 2014, 5.000%, 10/01/39 Missouri Health and Educational Facilities Authority, Revenue Bonds, Rockhurst	10/18 at 103.00	BBB-	792,953
700	University, Series 2011A, 6.500%, 10/01/35 Missouri Health and Educational Facilities Authority, Revenue Bonds, Washington	11/21 at 100.00	AAA	629,392
550	University, Series 2011B, 5.000%, 11/15/37 Missouri Health and Educational Facilities Authority, Revenue Bonds, Webster	4/21 at 100.00	A2	657,960
600	University, Series 2011, 5.000%, 4/01/36 Northwest Missouri State University, Housing System Revenue Bonds, Refunding Series	No Opt. Call	A3	240,353
250	2012, 3.125%, 6/01/29 Total Education and Civic Organizations Health Care – 35.2% (22.2% of Total Investments)			6,928,428
6,275	Cape Girardeau County Industrial Development Authority, Missouri, Health Facilities Revenue	6/19 at 100.00	AA-	599,933
525	Bonds, Saint Francis Medical Center, Series 2009A, 5.750%, 6/01/39 Cape Girardeau County Industrial Development Authority, Missouri, Health Facilities Revenue			
760	Bonds, Southeast Missouri Hospital Association, Series 2007: 5.000%, 6/01/27	6/17 at 100.00	BBB-	775,375
560	5.000%, 6/01/36	6/17 at 100.00	BBB-	570,074
930	Cass County, Missouri, Hospital Revenue Bonds, Series 2007, 5.625%, 5/01/38	11/16 at 100.00	BBB-	946,889
480	Clinton County Industrial Development Authority, Missouri, Revenue Bonds, Cameron Regional	12/17 at 100.00	N/R	486,134
200	Medical Center, Series 2007, 5.000%, 12/01/37	2/21 at 100.00	BBB+	223,250

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	Joplin Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Freeman Health System, Series 2011, 5.500%, 2/15/31			
315	Joplin Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, Freeman Health System, Series 2015, 5.000%, 2/15/35	2/24 at 100.00	BBB+	345,876
500	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, SSM Health Care, Series 2014A, 5.000%, 6/01/31	6/24 at 100.00	AA-	574,860
540	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Capital Region Medical Center, Series 2011, 5.000%, 11/01/27	11/20 at 100.00	A3	608,893
1,730	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, CoxHealth, Series 2013A, 5.000%, 11/15/44	11/23 at 100.00	A2	1,924,106
335	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Heartland Regional Medical Center, Series 2012, 5.000%, 2/15/37	2/22 at 100.00	A1	365,716
250	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Mercy Health, Series 2012, 4.000%, 11/15/42	No Opt. Call	AA-	249,988
500	Missouri Health and Educational Facilities Authority, Health Facilities Revenue Bonds, Saint Luke's Episcopal and Presbyterian Hospitals, Series 2011, 5.000%, 12/01/25	12/21 at 100.00	A+	570,640
40	Missouri Health and Educational Facilities Authority, Health Facility Revenue Bonds, St. Luke's Health System, Series 2010A: 5.250%, 11/15/25	11/20 at 100.00	A+	46,498
2,000	5.000%, 11/15/30	11/20 at 100.00	A+	2,260,180
720	Saline County Industrial Development Authority, Missouri, Health Facilities Revenue Bonds, John Fitzgibbon Memorial Hospital Inc., Series 2010, 5.600%, 12/01/28	12/20 at 100.00	BBB-	796,745
350	St. Louis County Industrial Development Authority, Missouri, Healthcare Facilities Revenue Bonds, Ranken-Jordan Project, Refunding Series 2007, 5.000%, 11/15/27	11/16 at 100.00	N/R	352,405
10,735	Total Health Care			11,697,562

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	Housing/Single Family – 0.7% (0.5% of Total Investments)			
155	Missouri Housing Development Commission, Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007A-1, 4.700%, 9/01/27 (Alternative Minimum Tax)	9/16 at 100.00	AA+	157,878
80	Missouri Housing Development Commission, Single Family Mortgage Revenue Bonds, Homeownership Loan Program, Series 2007C-1, 4.800%, 9/01/38 (Alternative Minimum Tax)	3/17 at 100.00	AA+	80,039
235	Total Housing/Single Family Long-Term Care – 12.7% (8.0% of Total Investments)			237,917
250	Bridgeton Industrial Development Authority, Missouri, Senior Housing Revenue Bonds, The Sarah Community Project, Series 2013, 4.500%, 5/01/28	5/18 at 100.00	N/R	250,868
500	Joplin Industrial Development Authority, Missouri, Revenue Bonds, Christian Homes Inc., Series 2007F, 5.750%, 5/15/31	5/17 at 100.00	BBB–	515,990
475	Lees Summit Industrial Development Authority, Missouri, Revenue Bonds, John Knox Village Obligated Group, Series 2007A, 5.125%, 8/15/32	8/17 at 100.00	BBB–	488,158
250	Lees Summit Industrial Development Authority, Missouri, Revenue Bonds, John Knox Village Obligated Group, Series 2014A, 5.250%, 8/15/39	No Opt. Call	BBB–	258,090
250	Missouri Health and Educational Facilities Authority, Revenue Bonds, Lutheran Senior Services Projects, Series 2011, 6.000%, 2/01/41	2/21 at 100.00	BBB+	278,448
500	Missouri Health and Educational Facilities Authority, Revenue Bonds, Lutheran Senior Services Projects, Series 2014A, 5.000%, 2/01/44	2/24 at 100.00	BBB+	537,410
100	St. Louis County Industrial Development Authority, Missouri, Revenue Bonds, Friendship Village of Chesterfield, Series 2012, 5.000%, 9/01/42	No Opt. Call	BBB–	103,253
250	St. Louis County Industrial Development Authority, Missouri, Revenue Bonds, Friendship Village of Sunset Hills, Series 2012: 5.000%, 9/01/32	No Opt. Call	A–	270,715

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425	5.000%, 9/01/42 St. Louis County Industrial Development Authority, Missouri, Revenue Bonds,	9/22 at 100.00	A-	452,196
430	Friendship Village of Sunset Hills, Series 2013A, 5.875%, 9/01/43 St. Louis County Industrial Development Authority, Missouri, Revenue Bonds,	9/23 at 100.00	A-	475,743
570	Friendship Village of West County, Series 2007A, 5.500%, 9/01/28	9/17 at 100.00	BBB-	587,550
4,000	Total Long-Term Care Tax Obligation/General – 15.4% (9.7% of Total Investments) Branson Reorganized School District R-4, Taney County, Missouri, General Obligation Bonds,			4,218,421
500	School Building Series 2012, 4.375%, 3/01/32 Camdenton Reorganized School District R3, Camden County, Missouri, General Obligation Bonds,	3/22 at 100.00	A+	535,660
1,500	Series 2005, 5.250%, 3/01/24 – AGM Insured Independence School District, Jackson County, Missouri, General Obligation Bonds, Series	3/15 at 100.00	AA	1,506,345
1,685	2010, 5.000%, 3/01/27 Jackson County Reorganized School District 4, Blue Springs, Missouri, General Obligation Bonds, School Building Series 2013A,	3/20 at 100.00	AA+	1,956,470
500	5.000%, 3/01/31 Missouri School Boards Association, Lease Participation Certificates, Clay County School District 53 Liberty, Series 2007, 5.250%, 3/01/27 – AGM Insured	3/21 at 100.00	AA	574,475
500	Total Tax Obligation/General Tax Obligation/Limited – 22.0% (13.8% of Total Investments) Bi-State Development Agency of the Missouri-Illinois Metropolitan District, Mass Transit Sales	3/17 at 100.00	AA	539,475
4,685	Tax Appropriation Bonds, Refunding Combined Lien Series 2013A, 5.000%, 10/01/33 Excelsior Springs Community Center, Missouri, Sales Tax Revenue Bonds, Series	10/22 at 100.00	AA+	5,112,425
910	2014, 4.000%, 3/01/27 – AGM Insured Fulton, Missouri, Tax Increment Revenue Bonds, Fulton Commons Redevelopment Project, Series	3/23 at 100.00	AA	1,040,731
625	2006, 5.000%, 6/01/28	6/16 at 100.00	N/R	670,606
315		1/22 at 100.00	A	272,869
430				468,937

	Government of Guam, Business Privilege Tax Bonds, Series 2012B-1, 5.000%, 1/01/42 Howard Bend Levee District, St. Louis County, Missouri, Levee District Improvement Bonds, Series 2013B:			
180	4.875%, 3/01/33	3/23 at 100.00	BBB+	189,821
115	5.000%, 3/01/38	3/23 at 100.00	BBB+	121,524
485	Jackson County, Missouri, Special Obligation Bonds, Truman Medical Center Project, Series 2011B, 4.350%, 12/01/23	12/21 at 100.00	Aa3	544,917
300	Kansas City Industrial Development Authority, Missouri, Downtown Redevelopment District Revenue Bonds, Series 2011A, 5.000%, 9/01/32	9/21 at 100.00	AA-	331,698
475	Kansas City Tax Increment Financing Commission, Missouri, Tax Increment Revenue Bonds, Briarcliff West Project, Series 2006A, 5.400%, 6/01/24	6/16 at 100.00	N/R	485,175
325	Kansas City, Missouri, Special Obligation Bonds, Downtown Redevelopment District, Series 2014C, 5.000%, 9/01/33	9/23 at 100.00	AA-	371,407
360	Missouri Development Finance Board, Infrastructure Facilities Revenue Bonds, Branson Landing Project, Series 2005A, 5.000%, 6/01/35	6/15 at 100.00	A	363,805
300	Missouri Development Finance Board, Infrastructure Facilities Revenue Bonds, City of Branson – Branson Landing Project, Series 2015A, 4.000%, 6/01/34 (WI/DD, Settling 3/31/15)	6/23 at 100.00	A	300,069
180	Monarch-Chesterfield Levee District, St. Louis County, Missouri, Levee District Improvement Bonds, Series 1999, 5.750%, 3/01/19 – NPF G Insured	3/15 at 100.00	AA-	180,788
500	Osage Beach, Missouri, Tax Increment Revenue Bonds, Prewitts Point Transportation Development District, Series 2006, 5.000%, 5/01/23	5/15 at 100.00	N/R	494,305
1,500	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, Series 2007A, 0.000%, 8/01/41 – NPF G Insured	No Opt. Call	AA-	261,165
250	Saint Louis County Industrial Development Authority, Missouri, Sales Tax Revenue Bonds, Chesterfield Blue Valley Community Improvement District Project, Series 2014A, 5.250%, 7/01/44	7/24 at 100.00	N/R	255,445

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	St. Joseph Industrial Development Authority, Missouri, Tax Increment Bonds, Shoppes at North			
	Village Project, Series 2005A:			
340	5.375%, 11/01/24	5/15 at 100.00	N/R	340,156
400	5.500%, 11/01/27	5/15 at 100.00	N/R	400,204
	St. Joseph Industrial Development Authority, Missouri, Tax Increment Bonds, Shoppes at North			
200	Village Project, Series 2005B, 5.500%, 11/01/27	5/15 at 100.00	N/R	200,238
8,190	Total Tax Obligation/Limited Transportation – 12.8% (8.1% of Total Investments)			7,293,860
	Guam International Airport Authority, Revenue Bonds, Series 2013B, 5.500%, 10/01/33 – AGM Insured	10/23 at 100.00	AA	383,545
1,000	St. Louis, Missouri, Airport Revenue Bonds, Lambert-St. Louis International Airport, Series 2005, 5.500%, 7/01/18 – NPFQ Insured	No Opt. Call	AA–	1,143,010
2,500	St. Louis, Missouri, Airport Revenue Bonds, Lambert-St. Louis International Airport, Series 2007A, 5.000%, 7/01/21 – AGM Insured	7/17 at 100.00	AA	2,723,325
3,835	Total Transportation U.S. Guaranteed – 14.5% (9.2% of Total Investments) (4)			4,249,880
	Carroll County Public Water Supply District 1, Missouri, Water System Revenue Bonds, Refunding			
600	Series 2009, 6.000%, 3/01/39 (Pre-refunded 3/01/18)	3/18 at 100.00	A– (4)	692,556
600	Chesterfield, Missouri, Certificates of Participation, Series 2005, 5.000%, 12/01/24 (Pre-refunded 12/01/15) – FGIC Insured	12/15 at 100.00	Aa1 (4)	622,218
110	Missouri Joint Municipal Electric Utility Commission, Power Project Revenue Bonds, Iatan 2	1/16 at 100.00	A2 (4)	113,545
	Project Series 2006A, 4.125%, 1/01/21 (Pre-refunded 1/01/16) – AMBAC Insured			
500	Missouri Joint Municipal Electric Utility Commission, Power Project Revenue Bonds, Plum Point	1/16 at 100.00	AA– (4)	520,260
	Project, Series 2006, 5.000%, 1/01/34 (Pre-refunded 1/01/16) – NPFQ Insured			
600	Riverside, Missouri, L-385 Levee Redevelopment Plan Tax Increment Revenue Bonds, Series 2004, 5.250%, 5/01/20 (Pre-refunded 5/01/15)	5/15 at 100.00	A (4)	605,496
1,395	Springfield Public Building Corporation, Missouri, Lease Revenue Bonds, Jordan Valley	5/15 at 100.00	N/R (4)	1,675,046

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	Park Projects, Series 2000A, 6.125%, 6/01/21 – AMBAC Insured (ETM) St. Louis County, Missouri, GNMA Collateralized Mortgage Revenue Bonds, Series 1993D, 5.650%, 7/01/20 (Alternative Minimum Tax) (ETM)	No Opt. Call	AA+ (4)	598,365
500				
4,305	Total U.S. Guaranteed Utilities – 13.1% (8.2% of Total Investments)			4,827,486
2,965	Missouri Environmental Improvement and Energy Resources Authority, Water Facility Revenue Bonds, Missouri-American Water Company, Series 2006, 4.600%, 12/01/36 – BHAC Insured (Alternative Minimum Tax) (UB) (5) Missouri Joint Municipal Electric Utility Commission, Power Project Revenue Bonds, Plum Point Project, Refunding Series 2014A, 5.000%, 1/01/32 Missouri Joint Municipal Electric Utility Commission, Power Supply System Revenue Bonds, MoPEP Facilities, Series 2012:	12/16 at 100.00	AA+	3,040,015
350		1/25 at 100.00	A–	399,966
400	5.000%, 1/01/32	1/21 at 100.00	A2	441,452
425	5.000%, 1/01/37	1/21 at 100.00	A2	465,940
4,140	Total Utilities Water and Sewer – 7.6% (4.8% of Total Investments)			4,347,373
200	Metropolitan St. Louis Sewerage District, Missouri, Wastewater System Revenue Bonds, Series 2006C, 5.000%, 5/01/36 – NPFQ Insured	5/17 at 100.00	AAA	216,198
2,000	Metropolitan St. Louis Sewerage District, Missouri, Wastewater System Revenue Bonds, Series 2012A, 5.000%, 5/01/42	5/22 at 100.00	AAA	2,294,040
2,200	Total Water and Sewer			2,510,238
\$ 49,655	Total Long-Term Investments (cost \$48,975,177)			52,700,900
	Floating Rate Obligations – (6.7)%			(2,225,000)
	MuniFund Term Preferred Shares, at Liquidation Value – (54.2)% (6)			(18,000,000)
	Other Assets Less Liabilities – 2.2%			745,580
	Net Assets Applicable to Common Shares – 100%			\$ 33,221,480

Fair Value Measurements

Fair value is defined as the price that would be received upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Prices are determined using 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 risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				
Municipal Bonds	\$ —	\$52,700,900	\$ —	\$52,700,900

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.

As of February 28, 2015, the cost of investments was \$46,674,994.

Gross unrealized appreciation and gross unrealized depreciation of investments as of February 28, 2015, were as follows:

Gross unrealized:	
Appreciation	\$3,967,934
Depreciation	(167,185)
Net unrealized appreciation (depreciation) of investments	\$3,800,749

- (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 Investors 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.
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities,
(4) which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
 - (5) Investment, or portion of investment, has been pledged to collateralize the net payment obligations for investments in inverse floating rate transactions.
 - (6) MuniFund Term Preferred Shares, at Liquidation Value as a percentage of Total Investments is 34.2%.
(ETM) Escrowed to maturity.
(UB) Underlying bond of an inverse floating rate trust reflected as a financing transaction.
(WI/DD) Investment, or portion of investment, purchased on a when-issued or delayed delivery basis.
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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: 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 Missouri Premium Income Municipal Fund

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

Date: April 29, 2015

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, 2015

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

Date: April 29, 2015