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PIONEER MUNICIPAL HIGH INCOME TRUST
Form N-Q
March 31, 2015

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS
OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-21321

Pioneer Municipal High Income Trust
(Exact name of registrant as specified in charter)

60 State Street, Boston, MA 02109
(Address of principal executive offices) (ZIP code)

Terrence J. Cullen, Pioneer Investment Management, Inc.,
60 State Street, Boston, MA 02109
(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: April 30

Date of reporting period: January 31, 2015

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 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 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. ss. 3507.

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ITEM 1. Schedule of Investments.

File the schedules as of the close of the reporting period as set forth in ss. 210.12-12 12-14 of Regulation S-X [17 CFR 210.12-12 12-14]. The schedules need not be audited.

Pioneer Municipal
High Income Trust

NQ | January 31, 2015

Ticker Symbol: MHI

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Schedule of Investments | 1/31/15 (unaudited)

Principal Amount USD (\$)	Value
TAX EXEMPT OBLIGATIONS - 129.0% of Net Assets (f)	
Alabama - 1.5%	
4,500,000	Huntsville-Redstone Village Special Care Facilities Financing Authority Nursing Home Revenue, 5.5%, 1/1/43
	\$ 4,531,500
Arizona - 0.0%†	
24,000	Pima County Industrial Development Authority Education Revenue, 6.75%, 7/1/31
	\$ 24,140
California - 11.4%	
3,000,000(a)	Abag Finance Authority for Nonprofit Corp., Revenue, 5.75%, 7/1/37
	\$ 3,130,770
1,450,000	California Enterprise Development Authority Recovery Zone Facility Revenue, 8.5%, 4/1/31
	1,697,443
1,000,000	California Municipal Finance Authority, 5.75%, 7/1/30
	1,063,160
5,000,000	California Pollution Control Financing Authority, 5.0%, 7/1/37 (144A)
	5,192,450
1,740,000	California School Finance Authority, 7.375%, 10/1/43
	2,050,781
1,400,000	California Statewide Communities Development Authority, 5.625%, 11/1/33
	1,519,126
568,006(b)(c)	California Statewide Communities Development Authority Environmental Facilities Revenue, 9.0%, 12/1/38
	6
20,000,000(d)	Inland Empire Tobacco Securitization Authority Revenue, 6/1/36
	3,878,000
7,885,000(e)	Lehman Municipal Trust Receipts Revenue, RIB, 11.147%, 9/20/28 (144A)
	10,568,975
2,000,000(g)	Los Angeles Community College District, General Obligation, 4.0%, 8/1/39
	2,169,460
2,000,000	Tobacco Securitization Authority of Northern California Revenue, 5.375%, 6/1/38
	1,749,860
3,000,000	Tobacco Securitization Authority of Southern California Revenue, 5.0%, 6/1/37
	2,574,030
	\$ 35,594,061
Colorado - 1.5%	
1,500,000	Colorado Educational & Cultural Facilities Authority, 8.0%, 9/1/43
	\$ 1,550,535

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2,000,000	Colorado Health Facilities Authority Revenue, 5.25%, 5/15/42	2,156,520
1,000,000	Kremmling Memorial Hospital District Certificate of Participation, 7.125%, 12/1/45	836,480
		\$ 4,543,535
	Connecticut - 7.6%	
1,000,000	Hamden Connecticut Facility Revenue, 7.75%, 1/1/43	\$ 1,036,970
10,335,000(e)	Lehman Municipal Trust Receipts Revenue, RIB, 11.889%, 8/21/35	12,187,549
5,000,000	Mohegan Tribe of Indians Gaming Authority, 6.25%, 1/1/31	5,000,650
5,000,000(g)	State of Connecticut, General Obligation, 4.0%, 9/1/30	5,554,600
		\$ 23,779,769
	District of Columbia - 4.0%	
5,000,000	District of Columbia Tobacco Settlement Financing Corp., 6.5%, 5/15/33	\$ 6,427,550
6,000,000	District of Columbia Tobacco Settlement Financing Corp., 6.75%, 5/15/40	6,001,200
		\$ 12,428,750
	Florida - 6.4%	
1,500,000	Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/41	\$ 1,762,710
1,500,000	Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/46	1,758,750
500,000	Capital Trust Agency Revenue Bonds, 7.75%, 1/1/41	489,680
5,000,000	Florida's Turnpike Enterprise, 4.0%, 7/1/34	5,407,550
1,000,000(a)	Hillsborough County Industrial Development Authority Revenue, 8.0%, 8/15/32	1,315,820
2,260,000(b)	Liberty County Subordinate Revenue, 8.25%, 7/1/28	504,613
2,500,000	Miami-Dade County Florida Aviation Revenue, 5.5%, 10/1/41	2,900,875
2,250,000(e)	St. Johns County Industrial Development Authority Revenue, 1.344%, 1/1/49	835,493
832,581(b)	St. Johns County Industrial Development Authority Revenue, 2.5%, 1/1/49	8
5,000,000	Tallahassee Health Facilities Revenue, 6.375%, 12/1/30	5,019,800
		\$ 19,995,299
	Georgia - 5.0%	
4,240,000(e)	Atlanta Georgia Water and Wastewater Revenue, RIB, 10.869%, 11/1/43 (144A)	\$ 4,279,729
2,500,000	Clayton County Development Authority Revenue, 8.75%, 6/1/29	3,143,325
3,445,000	Clayton County Development Authority Revenue, 9.0%, 6/1/35	3,520,032
4,000,000	Private Colleges & Universities Authority Revenue, 5.0%, 10/1/43	4,703,360

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	\$ 15,646,446
Idaho - 1.6%	
5,000,000 Power County Industrial Development Corp., Revenue, 6.45%, 8/1/32	\$ 5,010,750
Illinois - 14.2%	

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Schedule of Investments | 1/31/15 (unaudited)

1,827,000(d) Illinois Finance Authority Revenue, 11/15/52 \$ 162,068

Principal
Amount
USD (\$)

Value

Illinois - (continued)	
2,087,000(e) Illinois Finance Authority Revenue, 4.0%, 11/15/52	\$ 1,335,075
3,865,000 Illinois Finance Authority Revenue, 6.0%, 8/15/38	4,430,991
2,000,000 Illinois Finance Authority Revenue, 6.0%, 8/15/39	2,370,480
580,000 Illinois Finance Authority Revenue, 6.375%, 5/15/17	581,386
2,500,000 Illinois Finance Authority Revenue, 6.5%, 4/1/39	2,789,550
240,000 Illinois Finance Authority Revenue, 7.0%, 11/15/17	240,122
235,000 Illinois Finance Authority Revenue, 7.0%, 5/15/18	235,559
1,700,000 Illinois Finance Authority Revenue, 7.625%, 5/15/25	1,908,420
600,000 Illinois Finance Authority Revenue, 7.75%, 5/15/30	666,114
2,000,000 Illinois Finance Authority Revenue, 8.0%, 5/15/40	2,214,060
3,200,000 Illinois Finance Authority Revenue, 8.0%, 5/15/46	3,527,136
2,000,000 Illinois Finance Authority Revenue, 8.125%, 2/15/40	2,150,140
2,500,000 Illinois Finance Authority Revenue, 8.25%, 2/15/46	2,694,300
16,880,000(e) Metropolitan Pier & Exposition Authority Dedicated State Tax Revenue, 0.00%, 6/15/22	17,902,253
1,250,000 Southwestern Illinois Development Authority Revenue, 5.625%, 11/1/26	1,082,337
	\$ 44,289,991
Indiana - 1.7%	
250,000 City of Carmel Indiana Nursing Home Revenue, 7.0%, 11/15/32	\$ 282,602
750,000 City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/42	844,005
500,000 City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/47	560,965
3,570,000 Vigo County Hospital Authority Revenue, 5.8%, 9/1/47 (144A)	3,752,606
	\$ 5,440,178
Kentucky - 1.9%	

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5,000,000	Kentucky Economic Development Finance Authority Revenue, 6.375%, 6/1/40	\$ 5,874,650
	Louisiana - 3.1%	
2,260,000	Jefferson Parish Hospital Service District No. 2, 6.375%, 7/1/41	\$ 2,673,354
1,500,000	Louisiana Local Government Environmental Facilities & Community Development Authority Revenue, 6.75%, 11/1/32	1,724,280
5,000,000	Louisiana Public Facilities Authority Revenue, 5.5%, 5/15/47	5,290,900
		\$ 9,688,534
	Maine - 2.2%	
1,500,000	Maine Health & Higher Educational Facilities Authority Revenue, 7.5%, 7/1/32	\$ 1,839,330
4,480,000	Maine Turnpike Authority Revenue, 5.0%, 7/1/42	5,178,298
		\$ 7,017,628
	Maryland - 0.5%	
1,500,000	Maryland Health & Higher Educational Facilities Authority Revenue, 6.75%, 7/1/44	\$ 1,656,285
	Massachusetts - 4.9%	
7,100,000	Massachusetts Development Finance Agency Revenue, 5.75%, 1/1/42	\$ 9,535,655
595,000	Massachusetts Educational Financing Authority Revenue, 6.0%, 1/1/28	635,531
4,500,000(b)(c)	Massachusetts Health & Educational Facilities Authority Revenue, 6.5%, 1/15/38	11,610
5,000,000	Massachusetts Health & Educational Facilities Authority Revenue, 6.75%, 10/1/33	5,019,850
		\$ 15,202,646
	Michigan - 3.4%	
895,000	Doctor Charles Drew Academy Certificate of Participation, 5.7%, 11/1/36	\$ 179,036
2,000,000	Kent Hospital Finance Authority Revenue, 6.25%, 7/1/40	2,023,520
2,640,000	Michigan State University Revenue, 5.0%, 8/15/41	3,093,816
6,100,000	Michigan Tobacco Settlement Finance Authority Revenue, 6.0%, 6/1/48	5,277,537
		\$ 10,573,909
	Minnesota - 0.8%	
2,000,000	Port Authority of the City of Bloomington, Minnesota Recovery Zone Facility Revenue, 9.0%, 12/1/35	\$ 2,349,960
	Montana - 0.0%†	
1,600,000(b)(c)	Two Rivers Authority, Inc., Project Revenue, 7.375%, 11/1/27	\$ 126,112

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New Jersey - 1.9%

3,000,000	New Jersey Economic Development Authority Revenue, 5.25%, 9/15/29	\$ 3,250,320
2,500,000	New Jersey Economic Development Authority Revenue, 5.75%, 9/15/27	2,786,700
		\$ 6,037,020

New Mexico - 1.3%

1,500,000	Otero County New Mexico Project Revenue, 6.0%, 4/1/23	\$ 1,385,310
2,960,000	Otero County New Mexico Project Revenue, 6.0%, 4/1/28	2,576,917
		\$ 3,962,227

Principal
Amount
USD (\$)

Value

New York - 9.6%

2,000,000	Chautauqua County Capital Resource Corp., Revenue, 8.0%, 11/15/30	\$ 2,107,340
2,000,000	Hempstead Local Development Corp., Revenue, 5.75%, 7/1/39	2,271,260
2,000,000	New York City Industrial Development Agency Revenue, 5.25%, 12/1/32	2,004,620
2,000,000	New York City Industrial Development Agency Revenue, 7.625%, 12/1/32	2,011,480
7,040,000(e)	New York State Dormitory Authority Revenue, RIB, 15.901%, 5/29/14 (144A)	8,624,211
7,500,000	New York State Dormitory Authority Revenue, 5.0%, 3/15/39	8,840,175
1,000,000	New York State Dormitory Authority Revenue, 6.125%, 12/1/29	1,115,080
2,577,540	Westchester County Healthcare Corp., Revenue, 5.0%, 11/1/44	2,963,424
		\$ 29,937,590

North Dakota - 0.9%

2,525,000	County of Burleigh ND, 5.0%, 7/1/38	\$ 2,777,475
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Ohio - 3.3%

2,500,000	Buckeye Tobacco Settlement Financing Authority Revenue, 5.875%, 6/1/47	\$ 2,124,625
1,700,000	Buckeye Tobacco Settlement Financing Authority Revenue, 6.0%, 6/1/42	1,448,536
5,000,000	Buckeye Tobacco Settlement Financing Authority Revenue, 6.5%, 6/1/47	4,603,450
2,000,000(e)	Ohio Air Quality Development Authority Revenue, 3.1%, 3/1/23	2,066,780
		\$ 10,243,391

Oregon - 1.9%

5,190,000	Oregon Health & Science University Revenue, 5.0%, 7/1/32	\$ 6,067,421
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Pennsylvania - 5.9%		
1,550,000	Allegheny County Hospital Development Authority Revenue, 5.125%, 5/1/25	\$ 1,561,206
1,280,000(b)(c)	Langhorne Manor Borough Higher Education Authority Revenue, 7.35%, 7/1/22	371,213
5,000,000	Pennsylvania Economic Development Financing Authority Solid Waste Disposal Revenue, 6.0%, 6/1/31	5,000,800
1,000,000	Philadelphia Authority for Industrial Development Revenue, 6.5%, 6/15/33 (144A)	1,031,380
2,000,000	Philadelphia Authority for Industrial Development Revenue, 6.75%, 6/15/43 (144A)	2,068,800
2,000,000	Philadelphia Authority for Industrial Development Revenue, 8.2%, 12/1/43	2,255,460
5,900,000	Philadelphia Hospitals & Higher Education Facilities Authority Revenue, 5.0%, 7/1/34	5,976,169
		\$ 18,265,028
Puerto Rico - 0.9%		
3,255,000(g)	Commonwealth of Puerto Rico, General Obligation, 8.0%, 7/1/35	\$ 2,721,896
Rhode Island - 1.3%		
5,900,000(b)(c)	Central Falls Rhode Island Detention Facility Corp., Revenue, 7.25%, 7/15/35	\$ 2,387,848
1,500,000	Rhode Island Health & Educational Building Corp., Revenue, 8.375%, 1/1/46	1,748,190
		\$ 4,136,038
Tennessee - 1.6%		
4,600,000	Sullivan County Health, Educational & Housing Facilities Board Revenue, 5.25%, 9/1/36	\$ 4,841,040
Texas - 16.3%		
1,000,000	Arlington Higher Education Finance Corp., Revenue Bonds, 7.0%, 3/1/34	\$ 1,072,810
2,500,000	Central Texas Regional Mobility Authority Revenue, 6.75%, 1/1/41	3,092,050
5,000,000(g)	Goose Creek Consolidated Independent School District, General Obligation, 4.0%, 2/15/26	5,749,750
725,078(b)(c)	Gulf Coast Industrial Development Authority Revenue, 7.0%, 12/1/36	7
3,750,000	Houston Airport System Special Facilities Revenue, 5.7%, 7/15/29	3,760,050
5,340,000	Lubbock Health Facilities Development Corp., Nursing Home Revenue, 6.625%, 7/1/36	5,524,977
10,000,000	North Texas Tollway Authority Transportation Revenue, 5.75%, 1/1/33	11,166,800
1,500,000	Red River Health Facilities Development Corp., Revenue, 8.0%, 11/15/41	1,792,515
4,000,000	Sanger Industrial Development Corp., Revenue, 8.0%, 7/1/38	4,497,560
7,040,000(e)(g)		7,226,490

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	State of Texas, General Obligation, RIB, 12.548%, 4/1/30	
2,000,000	Tarrant County Cultural Education Facilities Finance Corp., Revenue, 8.0%, 11/15/34	2,358,780
1,000,000	Tarrant County Cultural Education Facilities Finance Corp., Revenue, 8.125%, 11/15/39	973,340
1,000,000	Tarrant County Cultural Education Facilities Finance Corp., Revenue, 8.25%, 11/15/44	980,270
2,500,000	Travis County Health Facilities Development Corp., Revenue, 7.125%, 1/1/46	2,745,700
		\$ 50,941,099

Principal
Amount
USD (\$)

		Value
	Virginia - 1.4%	
4,000,000	Upper Occoquan Sewage Authority Revenue, 4.0%, 7/1/41	\$ 4,389,400
	Washington - 7.5%	
14,315,000(d)(g)	State of Washington, General Obligation, 6/1/22	\$ 12,530,492
3,795,000	Washington State Health Care Facilities Authority Revenue, 6.0%, 1/1/33	4,407,779
1,150,000	Washington State Housing Finance Commission Revenue, 6.75%, 10/1/47	1,266,840
5,000,000	Washington State Housing Finance Committee Nonprofit Revenue, 5.625%, 1/1/27	5,051,750
		\$ 23,256,861
	West Virginia - 0.9%	
2,000,000	City of Philippi WV, 7.75%, 10/1/44	\$ 2,074,380
735,000	West Virginia Hospital Finance Authority Hospital Revenue, 9.125%, 10/1/41	866,440
		\$ 2,940,820
	Wisconsin - 2.6%	
5,000,000	Wisconsin Public Finance Authority Continuing Care Retirement Community Revenue, 8.25%, 6/1/46	\$ 5,951,500
400,000	Wisconsin State Public Finance Authority Revenue, 8.375%, 6/1/20	401,392
1,500,000	Wisconsin State Public Finance Authority Revenue, 8.625%, 6/1/47	1,830,345
		\$ 8,183,237
	TOTAL TAX EXEMPT OBLIGATIONS (Cost \$367,928,630)	\$ 402,474,686
	MUNICIPAL COLLATERALIZED DEBT OBLIGATION - 0.4% of Net Assets	
10,000,000(c)(e)	Non-Profit Preferred Funding Trust I, 0.0%, 9/15/37 (144A)	\$ 1,348,400

TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION (Cost \$10,000,000)	\$ 1,348,400
TOTAL INVESTMENTS IN SECURITIES - 129.4% (Cost - \$377,928,630) (h)(i)	\$ 403,823,086
OTHER ASSETS AND LIABILITIES -3.0%	\$ 9,265,501
PREFERRED SHARES AT REDEMPTION VALUE, INCLUDING DIVIDENDS PAYABLE - (32.4)%	\$ (101,001,211)
NET ASSETS APPLICABLE TO COMMON SHAREOWNERS - 100.0%	\$ 312,087,376

† Amount rounds to less than 0.1%.

(144A) Security is exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold normally to qualified institutional buyers in a transaction exempt from registration. At January 31, 2015, the value of these securities amounted to \$36,866,551, or 11.8% of total net assets applicable to common shareowners.

RIB Residual Interest Bond. The interest rate is subject to change periodically and inversely based upon prevailing market rates. The interest rate shown is the rate at January 31, 2015.

- (a) Prerefunded bonds have been collateralized by U.S. Treasury or U.S. Government Agency securities which are held in escrow to pay interest and principal on the tax exempt issue and to retire the bonds in full at the earliest refunding date.
- (b) Security is in default and is non income producing.
- (c) Indicates a security that has been deemed illiquid. As of January 31, 2015 the aggregate cost of illiquid securities in the Trust's portfolio was \$20,741,155. As of that date, the aggregate value of illiquid securities in the Trust's portfolio of \$4,245,196 represented 1.4% of total net assets applicable to common shareowners.
- (d) Security issued with a zero coupon. Income is recognized through accretion of discount.
- (e) The interest rate is subject to change periodically. The interest rate shown is the rate at January 31, 2015.
- (f) Consists of Revenue Bonds unless otherwise indicated.
- (g) Represents a General Obligation Bond.

(h) The concentration of investments by type of obligation/ market sector is as follows :

Insured	15.1%
Revenue Bonds:	
Health Revenue	16.9
Development Revenue	15.4
Other Revenue	13.6
Facilities Revenue	10.9
Education Revenue	8.7
Tobacco Revenue	8.4
Transportation Revenue	5.4
Water Revenue	2.4
Airport Revenue	2.0
Pollution Control Revenue	1.2
	100.0%

(i) At January 31, 2015, the net unrealized appreciation on investments based on cost for federal tax purposes of \$373,646,890 was as follows:

Aggregate gross unrealized appreciation for all investments in which there is an excess of value over tax cost	\$ 48,220,601
Aggregate gross unrealized depreciation for all investments in which there is an excess of tax cost over value	(18,044,405)
Net unrealized appreciation	\$ 30,176,196

For financial reporting purposes net unrealized appreciation on investments was \$25,894,456 and cost of investments aggregated \$377,928,630.

Various inputs are used in determining the value of the Trust's investments. These inputs are summarized in the three broad levels 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 risks, etc.).

Level 3 - significant unobservable inputs (including the Trust's own assumptions in determining fair value of investments).

Generally, equity securities are categorized as Level 1, fixed income securities and senior loans are categorized as Level 2, and securities valued using fair value methods (other than prices supplied by independent pricing services or broker dealers) as Level 3.

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The following is a summary of the inputs used as of January 31, 2015, in valuing the Trust's investments.

	Level 1	Level 2	Level 3	Total
Tax Exempt Obligations	\$-	\$402,474,686	\$-	\$ 402,474,686
Municipal Collateralized Debt Obligation	-	1,348,400	-	1,348,400
Total Investments in Securities	\$-	\$ 403,823,086	\$-	\$ 403,823,086

The following is a reconciliation of assets valued using significant unobservable inputs (Level 3):

	Balance as of 4/30/14	Realized gain (loss)	Change in unrealized appreciation (depreciation)	Purchases	Sales	Accrued discounts/premiums	Transfers in to Level 3*	Transfers out of Level 3*	Balance as of 1/31/15
Tax Exempt Obligations	\$2,955,000	\$339,303	\$(156,198)	\$-	\$(3,139,500)	\$1,395	\$-	\$-	\$-
Total	\$2,955,000	\$339,303	\$(156,198)	\$-	\$(3,139,500)	\$1,395	\$-	\$-	\$-

* Transfers are calculated on the beginning of period values. During the nine months ended January 31, 2015, there were not transfers between Levels 1, 2 and 3.

Net change in unrealized appreciation (depreciation) of Level 3 investments still held and considered Level 3 at January 31, 2015: \$0.

ITEM 2. CONTROLS AND PROCEDURES.

(a) Disclose the conclusions of the registrant's principal executive and principal financial officers, or persons performing similar functions, regarding the effectiveness of the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Act (17 CFR 270.30a-3(c))) as of a date within 90 days of the filing date of the report that includes the disclosure required by this paragraph, based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Exchange Act (17 CFR 240.13a-15(b) or 240.15d-15(b)).

The registrant's principal executive officer and principal financial officer have concluded that the registrant's disclosure controls and procedures are effective based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of this report.

(b) Disclose any change in the registrant's internal controls over financial reporting (as defined in Rule 30a-3(d) under the Act (17 CFR 270.30a-3(d))) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

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There were no significant changes in the registrant's internal control over financial reporting that occurred during the second fiscal quarter of the period covered by this report 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 Act (17 CFR 270.30a-2(a)), exactly as set forth below:

CERTIFICATIONS

I, [identify the certifying individual], certify that:

1. I have reviewed this report on Form N-Q of [identify registrant];
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the schedules of investments included in this report fairly present in all material respects the investments of the registrant as of the end of the fiscal quarter for which the report is filed;
4. The registrants other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940) and internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrants disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of a date within 90 days prior to the filing date of this report, based on such evaluation; and
 - (d) Disclosed in this report any change in the registrants internal control over financial reporting that occurred during the registrants most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrants internal control over financial reporting; and
5. The registrants other certifying officer(s) and I have disclosed to the registrants auditors and the audit committee of the registrants board of directors (or persons performing the equivalent functions):

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(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrants ability to record, process, summarize, and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrants internal control over financial reporting.

Date:

[Signature] [Title]

Filed herewith.

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SIGNATURES

[See General Instruction F]

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) Pioneer Municipal High Income Trust

By (Signature and Title)* /s/ Lisa M.Jones

Lisa M.Jones, President and Chief Executive Officer

Date March 31, 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/ Lisa M.Jones

Lisa M.Jones, President and Chief Executive Officer

Date March 31, 2015

By (Signature and Title)* /s/ Mark E. Bradley

Mark E. Bradley, Treasurer and Chief Accounting
and Financial Officer

Date March 31, 2015

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