

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST  
Form SC 13G  
January 19, 2010

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No.)

Pioneer Municipal High Income Advantage Trust

-----  
(Name of Issuer)

Auction Rate Preferred

-----  
(Title of Class of Securities)

723762209  
(See Item 2(e))

-----  
(CUSIP Number)

December 31, 2009

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(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 723762209

- 1. NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Bank of America Corporation 56-0906609

- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(a)   
(b)

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3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON WITH

6. SHARED VOTING POWER

1180

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

1180

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1180

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

19.7%

12. TYPE OF REPORTING PERSON

HC

CUSIP No. 723762209

1. NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Merrill Lynch, Pierce, Fenner & Smith, Inc. 13-5674085

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

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-----  
3. SEC USE ONLY  
-----

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

-----  
5. SOLE VOTING POWER

0

-----  
NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON WITH

6. SHARED VOTING POWER

587

-----  
7. SOLE DISPOSITIVE POWER

0

-----  
8. SHARED DISPOSITIVE POWER

587

-----  
9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

587

-----  
10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

-----  
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.8%

-----  
12. TYPE OF REPORTING PERSON

BD, IA

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CUSIP No. 723762209

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1. NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Bank of America, N.A. 94-1687665

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2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

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(a)   
(b)

-----  
3. SEC USE ONLY  
-----

4. CITIZENSHIP OR PLACE OF ORGANIZATION

United States  
-----

5. SOLE VOTING POWER

0  
-----

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY EACH  
REPORTING  
PERSON WITH

6. SHARED VOTING POWER

593  
-----

7. SOLE DISPOSITIVE POWER

0  
-----

8. SHARED DISPOSITIVE POWER

593  
-----

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

593  
-----

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.9%  
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12. TYPE OF REPORTING PERSON

BK  
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CUSIP No. 723762209

Item 1(a). Name of Issuer:

Pioneer Municipal High Income Advantage Trust

Item 1(b). Address of Issuer's Principal Executive Offices:

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60 STATE STREET  
BOSTON, MA 02109

Item 2(a). Names of Person Filing:

Bank of America Corporation ("Bank of America")  
Merrill Lynch, Pierce, Fenner & Smith, Inc. ("MLPFS")  
Bank of America, N.A. ("BANA")

Item 2(b). Address of Principal Business Office, or if None, Residence:

The address of the principal business office of Bank of America and BANA is:

Bank of America Corporate Center  
100 North Tryon Street  
Charlotte, North Carolina 28255

The address of the principal business office of MLPFS is:

4 World Financial Center  
250 Vesey Street  
New York, New York 10080

Item 2(c). Citizenship:

See Item 4 of Cover Pages

Item 2(d). Title of Class of Securities:

Auction Rate Preferred

Item 2(e). CUSIP Numbers:

723762209

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing Is a:

- (a)  Broker or dealer registered under Section 15 of the Exchange Act;
- (b)  Bank as defined in Section 3(a)(6) of the Exchange Act;
- (c)  Insurance company as defined in Section 3(a)(19) of the Exchange Act;
- (d)  Investment company registered under Section 8 of the Investment Company Act;
- (e)  An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h)  A savings association as defined in Section 3(b) of the Federal

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Deposit Insurance Act;

(i)  A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;

(j)  Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

With respect to the beneficial ownership of the reporting person, see Items 5 through 11 of the cover pages to this Schedule 13G, which are incorporated herein by reference.

The number of shares reported herein represents combined holdings in multiple series of auction rate preferred securities of the issuer, which are treated herein as one class of securities in accordance with the Securities and Exchange Commission's Auction Rate Securities Global Exemptive Relief no action letter issued on September 22, 2008.

(a) Amount beneficially owned:

See Item 9 of Cover Pages

(b) Percent of class:

See Item 11 of Cover Pages

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

(ii) Shared power to vote or to direct the vote:

(iii) Sole power to dispose or to direct the disposition of:

(iv) Shared power to dispose or to direct the disposition of:

See Items 5-8 of Cover Pages

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

With respect to the beneficial ownership of the reporting person, see Items 5 through 11 of the cover pages to this Schedule 13G, which are incorporated herein by reference.

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Item 8. Identification and Classification of Members of the Group.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: January 19, 2010

Bank of America Corporation  
Bank of America, N.A.

By: /s/ Angelina L. Richardson

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Name: Angelina L. Richardson  
Title: Vice President

Merrill Lynch, Pierce, Fenner & Smith, Inc.

By: /s/ Robert M. Shine

-----  
Name: Robert M. Shine  
Title: Attorney-In-Fact