

PIONEER MUNICIPAL HIGH INCOME TRUST  
 Form 3  
 January 15, 2010

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL  
 OMB Number: 3235-0104  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person *             |         | 2. Date of Event Requiring Statement | 3. Issuer Name <b>and</b> Ticker or Trading Symbol                               |  |
| Â BANK OF AMERICA CORP /DE/                           |         | (Month/Day/Year)<br>12/31/2009       | PIONEER MUNICIPAL HIGH INCOME TRUST [MHI]  |  |
| (Last)  | (First) | (Middle)                             | 4. Relationship of Reporting Person(s) to Issuer                                 | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| BANK OF AMERICA CORPORATE CENTER,Â 100 N TRYON STREET |         |                                      | (Check all applicable)   |  |
| (Street)  |         |                                      | ___ Director   | <input checked="" type="checkbox"/> 10% Owner        |
| CHARLOTTE,Â NCÂ 28255                                 |         |                                      | ___ Officer  | ___ Other  |
| (City)  | (State) | (Zip)                                | (give title below) (specify below)   |  |
|   |         |                                      | 6. Individual or Joint/Group Filing(Check Applicable Line)                       |  |
|   |         |                                      | ___ Form filed by One Reporting Person   |  |
|   |         |                                      | <input checked="" type="checkbox"/> Form filed by More than One Reporting Person |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Auction Rate Preferred          | 456 <sup>(1)</sup>                                    | I  | By Subsidiary   |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security | 4. Conversion or Exercise | 5. Ownership Form of | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|--|---------------------------|----------------------|---|
|--|--|--|---------------------------|----------------------|---|

| Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Price of Derivative Security | Derivative Security: Direct (D) or Indirect (I) |
|------------------|-----------------|-------|----------------------------|------------------------------|---|
|                  |                 |       |                            |                              |   |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |       |
|---|---------------|-----------|---------|-------|
|   | Director      | 10% Owner | Officer | Other |
| BANK OF AMERICA CORP /DE/<br>BANK OF AMERICA CORPORATE CENTER<br>100 N TRYON STREET<br>CHARLOTTE, NC 28255  | ^             | ^ X       | ^       | ^     |
| MERRILL LYNCH, PIERCE, FENNER & SMITH INC.<br>4 WORLD FINANCIAL CENTER<br>NORTH TOWER<br>NEW YORK, NY 10080 | ^             | ^ X       | ^       | ^     |
| BANK OF AMERICA NA<br>100 N. TRYON STREET<br>CHARLOTTE, NC 28255  | ^             | ^ X       | ^       | ^     |

## Signatures

Bank of America Corporation and Bank of America, N.A. By: /s/ Debra I. Cho, Senior Vice President 01/15/2010

\*\*Signature of Reporting Person Date

Merrill Lynch, Pierce, Fenner & Smith, Inc. By: /s/ Robert M. Shine, Attorney-In-Fact 01/15/2010

\*\*Signature of Reporting Person Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 5(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

The Auction Rate Preferred Shares ("Shares") reported in Table 1 represent 208 Shares beneficially owned by Merrill Lynch, Pierce, Fenner & Smith, Inc. ("MLPFS") and 248 Shares beneficially owned by Bank of America, N.A. ("BANA"). MLPFS and BANA are each indirect, wholly owned subsidiaries of Bank of America Corporation ("Bank of America").

^

### Remarks:

The Shares reported herein represent Bank of America's combined holdings in multiple series of auction rate securities of the issuer, which are treated herein as one class of securities in accordance with the Securities--Global Exemptive Relief no-action letter issued by the Securities and Exchange Commission on August 22, 2008. Bank of America undertakes to provide upon request by the SEC, the issuer or a securities purchaser a complete information regarding the number of equity securities of the issuer purchased or sold at a date of all transactions in such securities that occurred after Bank of America became a 10% owner of this filing.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.