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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

1. Name and Address of Reporting Person* <u>BANK OF AMERICA CORP /DE/</u>  (Last) (First) (Middle) BANK OF AMERICA CORPORATE CENTER 100 N. TRYON STREET  (Street) CHARLOTTE NC 28255  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>PIONEER MUNICIPAL HIGH INCOME ADVANTAGE FUND, INC. [ MAV ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 03/29/2012	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock <sup>(1)(2)(3)</sup>	03/29/2012		P		100	A	\$14.72	100	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/29/2012		S		100	D	\$14.7189	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	04/27/2012		P		40	A	\$15.24	40	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	05/08/2012		S		40	D	\$15.62	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	01/30/2013		P		108	A	\$16.1433	108	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	01/31/2013		S		108	D	\$16.1243	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/08/2013		S		2,000	D	\$16.0426	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/11/2013		P		1,330	A	\$16.04	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/11/2013		P		670	A	\$16.0066	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/11/2013		S		2,000	D	\$16.0054	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/19/2013		P		200	A	\$15.6	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/19/2013		P		400	A	\$15.59	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/19/2013		P		1,400	A	\$15.6573	0	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	03/21/2013		S		2,000	D	\$15.654	0	I	See Footnotes <sup>(1)(2)(3)</sup>





TABLE I -NON-DERIVATIVE SECURITIES ACQUIRED, DISPOSED OF, OR BENEFICIALLY OWNED

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		37	D	\$7.74	203	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		45	D	\$7.74	158	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		2	D	\$7.74	156	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		1	D	\$7.74	155	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		5	D	\$7.745	150	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		14	D	\$7.745	136	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		35	D	\$7.74	101	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		35	D	\$7.75	66	I	See Footnotes <sup>(1)(2)(3)</sup>
Common Stock <sup>(1)(2)(3)</sup>	06/05/2023		S		66	D	\$7.75	0	I	See Footnotes <sup>(1)(2)(3)</sup>

## Explanation of Responses:

1. This statement is jointly filed by Bank of America Corporation, Merrill Lynch, Pierce, Fenner & Smith Incorporated (“Merrill Lynch”), and BofA Securities, Inc (“BofA Securities”) (collectively, the “Reporting Persons”). Bank of America Corporation holds an indirect interest in the securities listed in this Report by virtue of its 100% ownership of its subsidiaries Merrill Lynch and BofA Securities. Each Reporting Person disclaims beneficial ownership of the securities reported herein except to the extent of its pecuniary interest therein, if any, and this report shall not be deemed an admission that any such Reporting Person is the beneficial owner of, or has any pecuniary interest in, such securities for purposes of Securities Exchange Act of 1934 (the “Exchange Act”), or for any other purpose.

2. Each Reporting Person declares that neither the filing of this statement nor anything herein shall be construed as an admission that such person is, for the purposes of Section 13(d) of the

Exchange Act or any other purpose, (i) acting (or has agreed or is agreeing to act together with any other person) as a partnership, limited partnership, syndicate or other group for the purpose of acquiring, holding or disposing of securities of the Issuer or otherwise with respect to the Issuer or any securities of the Issuer or (ii) a member of any group with respect to the Issuer or any securities of the Issuer.

3. Without conceding its status as a greater than 10% beneficial owner or that the reported transactions are subject to disclosure under Section 16(a) of the Exchange Act or short-swing profit

recovery under Section 16(b) of the Exchange Act, the amount of profit potentially recoverable by the Issuer from the reported transactions in the event that the Reporting Persons were greater than 10% beneficial owners and the transactions were subject to Section 16(b) has been or will be remitted to the Issuer.

\*\*Intentional misstatements or omissions of facts constitute Federal Criminal Violations.

See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

**JOINT FILING AGREEMENT**

Pursuant to and in accordance with the Securities Exchange Act of 1934, as amended (the "**Exchange Act**"), and the rules and regulations thereunder, each party hereto hereby agrees to the joint filing, on behalf of each of them, of any filing required by such party under Section 13 or Section 16 of the Exchange Act or any rule or regulation thereunder (including any amendment, restatement, supplement, and/or exhibit thereto) with the Securities and Exchange Commission (and, if such security is registered on a national securities exchange, also with the exchange), and further agrees to the filing, furnishing, and/or incorporation by reference of this agreement as an exhibit thereto. This agreement shall remain in full force and effect until revoked by any party hereto in a signed writing provided to each other party hereto, and then only with respect to such revoking party.

IN WITNESS WHEREOF, each party hereto, being duly authorized, has caused this agreement to be executed and effective as of the date set forth below.

Date: December 13, 2024

**BANK OF AMERICA CORPORATION**

By: /s/ Andres Ortiz  
Name: Andres Ortiz  
Title: Authorized Signatory

**BOFA SECURITIES, INC.**

By: /s/ Andres Ortiz  
Name: Andres Ortiz  
Title: Authorized Signatory

**MERRILL LYNCH, PIERCE, FENNER & SMITH INC.**

By: /s/ Andres Ortiz  
Name: Andres Ortiz  
Title: Authorized Signatory

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