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

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 2)\*

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE FUND,  
INC.

(Name of Issuer)

VARIABLE RATE MUNIFUND TERM PREFERRED SHARES  
(Title of Class of Securities)

723762407  
(CUSIP Number)

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

(Name, Address and Telephone Number of Person  
Authorized to Receive Notices and Communications)

February 29, 2024

(Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box .

\*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 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 ("Act") 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).

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<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> Bank of America Corporation 56-0906609	
<b>2</b>	<b>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP</b> (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
<b>3</b>	<b>SEC USE ONLY</b>	
<b>4</b>	<b>SOURCE OF FUNDS (SEE INSTRUCTIONS)</b> WC	
<b>5</b>	<b>CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)</b> <input checked="" type="checkbox"/>	
<b>6</b>	<b>CITIZENSHIP OR PLACE OF ORGANIZATION</b> Delaware	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>7</b>	<b>SOLE VOTING POWER</b> 0
	<b>8</b>	<b>SHARED VOTING POWER</b> 500
	<b>9</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>10</b>	<b>SHARED DISPOSITIVE POWER</b> 500
<b>11</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 500	
<b>12</b>	<b>CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>13</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)</b> 100%	
<b>14</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> HC	

<b>1</b>	<b>NAMES OF REPORTING PERSONS</b> Banc of America Preferred Funding Corporation 75-2939570	
<b>2</b>	<b>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP</b> (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
<b>3</b>	<b>SEC USE ONLY</b>	
<b>4</b>	<b>SOURCE OF FUNDS (SEE INSTRUCTIONS)</b> WC	
<b>5</b>	<b>CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)</b> <input type="checkbox"/>	
<b>6</b>	<b>CITIZENSHIP OR PLACE OF ORGANIZATION</b> Delaware	
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>7</b>	<b>SOLE VOTING POWER</b> 0
	<b>8</b>	<b>SHARED VOTING POWER</b> 500
	<b>9</b>	<b>SOLE DISPOSITIVE POWER</b> 0
	<b>10</b>	<b>SHARED DISPOSITIVE POWER</b> 500
<b>11</b>	<b>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON</b> 500	
<b>12</b>	<b>CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)</b> <input type="checkbox"/>	
<b>13</b>	<b>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)</b> 100%	
<b>14</b>	<b>TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)</b> CO	

**Item 1 Security and Issuer**

This Amendment No. 2 (this "**Amendment**") amends, as set forth below, the statement on Schedule 13D, dated May 30, 2023 and filed with the SEC on June 7, 2023 (the "**Original Schedule 13D**") as amended by Amendment No. 1 dated January 24, 2024 and filed with the SEC on January 26, 2024 ("Amendment No. 2), for Bank of America Corporation ("**BAC**") and Banc of America Preferred Funding Corporation ("**BAPFC**") (collectively, the "**Reporting Persons**") with respect to the Variable Rate MuniFund Term Preferred Shares ("**VMTP Shares**") of Pioneer Municipal High Income Advantage Fund, Inc. (the "**Issuer**" or the "**Company**").

This Amendment is being filed in relation to the redemption by the Issuer of 900 VMTP Shares (CUSIP 723762407) on February 29, 2024.

**Item 2 Identity and Background**

Item 2 of the Original Schedule 13D is hereby amended by deleting Schedule I and Schedule II referenced therein and replacing them with Schedule I and Schedule II included with this Amendment.

**Item 7 Material to be Filed as Exhibits**

Item 7 of the Original Schedule 13D is hereby amended by deleting Exhibit 99.1 and Exhibit 99.2 thereto and the insertion of the following exhibits:

“Exhibit	Description of Exhibit
99.1	Joint Filing Agreement
99.2	Limited Power of Attorney”

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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.

Date: March 1, 2024

**BANK OF AMERICA CORPORATION**

By: /s/ Michael Jentis  
Name: Michael Jentis  
Title: Attorney-in-fact

**BANC OF AMERICA PREFERRED FUNDING CORPORATION**

By: /s/ Michael Jentis  
Name: Michael Jentis  
Title: Authorized Signatory

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LIST OF EXHIBITS

Exhibit	Description of Exhibit
<a href="#">99.1</a>	Joint Filing Agreement
<a href="#">99.2</a>	Limited Power of Attorney



**SCHEDULE I****EXECUTIVE OFFICERS AND DIRECTORS OF  
REPORTING PERSONS**

The following sets forth the name and present principal occupation of each executive officer and director of Bank of America Corporation. The business address of each of the executive officers and directors of Bank of America Corporation is Bank of America Corporate Center, 100 North Tryon Street, Charlotte, North Carolina 28255.

<u>Name</u>	<u>Position with Bank of America Corporation</u>	<u>Principal Occupation</u>
Brian T. Moynihan	Chairman of the Board, Chief Executive Officer and Director	Chairman of the Board and Chief Executive Officer of Bank of America Corporation
Paul M. Donofrio	Vice Chair	Vice Chair of Bank of America Corporation
Thong M. Nguyen	Vice Chair, Head of Global Strategy & Enterprise Platforms	Vice Chair, Head of Global Strategy & Enterprise Platforms of Bank of America Corporation
Catherine P. Bessant	Vice Chair, Global Strategy	Vice Chair, Global Strategy of Bank of America Corporation
Bruce R. Thompson	Vice Chair, Head of Enterprise Credit	Vice Chair, Head of Enterprise Credit of Bank of America Corporation
Dean C. Athanasia	President, Regional Banking	President, Regional Banking of Bank of America Corporation
James P. DeMare	President, Global Markets	President, Global Markets of Bank of America Corporation
Kathleen A. Knox	President, The Private Bank	President, The Private Bank of Bank of America Corporation
Matthew M. Koder	President, Global Corporate and Investment Banking	President, Global Corporate and Investment Banking of Bank of America Corporation
Bernard A. Mensah	President, International; CEO, Merrill Lynch International	President, International of Bank of America Corporation and CEO, Merrill Lynch International
Lindsay DeNardo Hans	President, Co-Head Merrill Wealth Management	President, Co-Head Merrill Wealth Management of Bank of America Corporation
Eric Schimpf	President, Co-Head Merrill Wealth Management	President, Co-Head Merrill Wealth Management of Bank of America Corporation
Aditya Bhasin	Chief Technology and Information Officer	Chief Technology and Information Officer of Bank of America Corporation
D. Steve Boland	Chief Administrative Officer	Chief Administrative Officer of Bank of America Corporation

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Alastair Borthwick	Chief Financial Officer	Chief Financial Officer of Bank of America Corporation
Sheri Bronstein	Chief Human Resources Officer	Chief Human Resources Officer of Bank of America Corporation
Geoffrey Greener	Chief Risk Officer	Chief Risk Officer of Bank of America Corporation
Thomas M. Scrivener	Chief Operations Executive	Chief Operations Executive of Bank of America Corporation
Lauren A. Mogensen	Global General Counsel	Global General Counsel of Bank of America Corporation
Lionel L. Nowell, III	Lead Independent Director	Lead Independent Director, Bank of America Corporation; Former Senior Vice President and Treasurer, PepsiCo, Inc.
Sharon L. Allen	Director	Former Chairman of Deloitte LLP
Jose E. Almeida	Director	Chairman, President and Chief Executive Officer of Baxter International Inc.
Pierre J.P. de Weck <sup>1</sup>	Director	Former Chairman and Global Head of Private Wealth Management, Deutsche Bank AG
Arnold W. Donald	Director	Former President and Chief Executive Officer, Carnival Corporation & Carnival plc
Linda P. Hudson	Director	Former Executive Officer, The Cardea Group, LLC and Former President and Chief Executive Officer of BAE Systems, Inc.
Monica C. Lozano	Director	Chief Executive Officer, College Futures Foundation and Former Chairman, US Hispanic Media Inc.; Lead Independent Director, Target Corporation
Denise L. Ramos	Director	Former Chief Executive Officer and President of ITT Inc.
Clayton S. Rose	Director	President of Bowdoin College
Michael D. White	Director	Lead Director of Kimberly-Clark Corporation; Former Chairman, President, and Chief Executive Officer of DIRECTV
Thomas D. Woods <sup>2</sup>	Director	Former Vice Chairman and Senior Executive Vice President of Canadian Imperial Bank of Commerce; Former Chairman, Hydro One Limited
Maria T. Zuber	Director	Vice President for Research and E.A., Griswold Professor of Geophysics, MIT

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<sup>1</sup> Mr. de Weck is a citizen of Switzerland.

<sup>2</sup> Mr. Woods is a citizen of Canada.

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The following sets forth the name and present principal occupation of each executive officer and director of Banc of America Preferred Funding Corporation. The business address of each of the executive officers and directors of Banc of America Preferred Funding Corporation is 214 North Tryon Street, Charlotte, North Carolina 28255.

<u>Name</u>	<u>Position with Banc of America Preferred Funding Corporation</u>	<u>Principal Occupation</u>
John J. Lawlor	Director and President	Managing Director, Municipal Markets and Public Sector Banking Executive of BofA Securities, Inc. and Bank of America, National Association
Edward H. Curland	Director and Managing Director	Managing Director, Municipal Markets Executive for Trading of BofA Securities, Inc. and Bank of America, National Association
James Duffy	Managing Director	Director; MBAM BFO, The CFO Group of Bank of America, National Association
Michael I. Jentis	Managing Director	Managing Director, Head of Sales – Public Finance of BofA Securities, Inc. and Bank of America, National Association
Mona Payton	Managing Director	Managing Director, Municipal Markets Executive for Short-Term Trading of BofA Securities, Inc. and Bank of America, National Association
Edward J. Sisk	Director and Managing Director	Managing Director, Public Finance Executive of BofA Securities, Inc. and Bank of America, National Association
John B. Sprung	Director	Corporate Director
David A. Stephens	Director and Managing Director	Managing Director, Executive for Public Finance and Public Sector Credit Products of BofA Securities, Inc. and Bank of America, National Association

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**SCHEDULE II**

**LITIGATION SCHEDULE**

Bank of America Corporation and certain of its affiliates, including BofA Securities, Inc. ("BofA Securities," successor in interest to Merrill Lynch, Pierce, Fenner & Smith Incorporated) and Bank of America, N.A., have been involved in a number of civil proceedings and regulatory actions which concern matters arising in connection with the conduct of its business. Certain of such proceedings have resulted in findings of violations of federal or state securities laws. Such proceedings are reported and summarized in the BofA Securities Form BD as filed with the SEC, which descriptions are hereby incorporated by reference.

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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: March 1, 2024

BANK OF AMERICA CORPORATION

By: /s/ Michael Jentis  
Name: Michael Jentis  
Title: Attorney-in-fact

BANC OF AMERICA PREFERRED FUNDING CORPORATION

By: /s/ Michael Jentis  
Name: Michael Jentis  
Title: Authorized Signatory

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**BANK OF AMERICA CORPORATION**

**LIMITED POWER OF ATTORNEY**

**BANK OF AMERICA CORPORATION**, a Delaware corporation (the "Corporation"), does hereby make, constitute, and appoint Michael Jentis as an attorney-in-fact for the Corporation acting for the Corporation and in the Corporation's name, place and stead, for the Corporation's use and benefit, to bind the Corporation by his execution of those agreements, forms and documents related specifically to Section 13 and Section 16 of the Securities Exchange Act of 1934.

Any documents executed by the attorney-in-fact in accordance with this Limited Power of Attorney shall fully bind and commit the Corporation and all other parties to such documents may rely upon the execution thereof by the attorney-in-fact as if executed by the Corporation and as the true and lawful act of the Corporation.

This Limited Power of Attorney shall automatically terminate as to the authority of Michael Jentis upon the earlier of the attorney-in-fact's resignation or termination from or transfer out of Global Banking and Markets – Municipal Banking and Markets; however, any such resignation, termination or transfer shall have no impact on any documents or instruments executed by the attorney-in-fact named above for the Corporation prior to such resignation, termination or transfer.

**IN WITNESS WHEREOF**, this Power of Attorney has been executed and delivered by the Corporation to the Attorney-in-Fact on this 27th day of May, 2020.

**BANK OF AMERICA CORPORATION**

By: /s/ Ellen A. Perrin  
Ellen A. Perrin  
Associate General Counsel and Senior Vice President

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