
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 2)*

PUTNAM MANAGED MUNICIPAL INCOME TRUST

(Name of Issuer)

AUCTION RATE PREFERRED

(Title of Class of Securities)

746823400

(CUSIP Number)

Bank of America Corporation
Bank of America Corporate Center, 100 N. Tryon Street
Charlotte, NC, 28255
980-825-9256

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

03/13/2013

(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 that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

The information required on 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).

SCHEDULE 13D

CUSIP No.	746823400
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1	Name of reporting person BANK OF AMERICA CORP /DE/
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions)

	OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input checked="" type="checkbox"/>
6	Citizenship or place of organization DELAWARE
Number of Shares Beneficially Owned by Each Reporting Person With:	7 Sole Voting Power 0.00
	8 Shared Voting Power 1,607.00
	9 Sole Dispositive Power 0.00
	10 Shared Dispositive Power 1,607.00
11	Aggregate amount beneficially owned by each reporting person 1,607.00
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) <input type="checkbox"/>
13	Percent of class represented by amount in Row (11) 92 %
14	Type of Reporting Person (See Instructions) HC

Comment for Type of Reporting Person: The calculation of the percentage of outstanding shares is based on 1,747 shares of Preferred Shares outstanding as of April 30, 2024, as disclosed by the Issuer in its Certified Shareholder Report on Form N-CSRS filed with the SEC on June 26, 2024.

SCHEDULE 13D

CUSIP No.	746823400
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1	Name of reporting person BANK OF AMERICA NA
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)
3	SEC use only
4	Source of funds (See Instructions) OO
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>
6	Citizenship or place of organization DELAWARE
Number of Shares Beneficial	7 Sole Voting Power

ly Owned by Each Reporting Person With:		0.00
	8	Shared Voting Power 1,607.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 1,607.00
11	Aggregate amount beneficially owned by each reporting person 1,607.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) <input type="checkbox"/>	
13	Percent of class represented by amount in Row (11) 92 %	
14	Type of Reporting Person (See Instructions) BK	

Comment for Type of Reporting Person: The calculation of the percentage of outstanding shares is based on 1,747 shares of Preferred Shares outstanding as of April 30, 2024, as disclosed by the Issuer in its Certified Shareholder Report on Form N-CSRS filed with the SEC on June 26, 2024.

SCHEDULE 13D

CUSIP No.	746823400
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1	Name of reporting person MERRILL LYNCH, PIERCE, FENNER & SMITH INCORPORATED	
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)	
3	SEC use only	
4	Source of funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or place of organization DELAWARE	
Number of Shares Beneficial ly Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power

	0.00
11	Aggregate amount beneficially owned by each reporting person 0.00
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) <input type="checkbox"/>
13	Percent of class represented by amount in Row (11) 0 %
14	Type of Reporting Person (See Instructions) BD

SCHEDULE 13D

CUSIP No.	746823400
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1	Name of reporting person BOFA SECURITIES, INC.	
2	Check the appropriate box if a member of a Group (See Instructions) <input type="checkbox"/> (a) <input checked="" type="checkbox"/> (b)	
3	SEC use only	
4	Source of funds (See Instructions) OO	
5	Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) <input type="checkbox"/>	
6	Citizenship or place of organization DELAWARE	
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) <input type="checkbox"/>	
13	Percent of class represented by amount in Row (11) 0 %	

SCHEDULE 13D

Item 1. Security and Issuer**(a) Title of Class of Securities:**

AUCTION RATE PREFERRED

(b) Name of Issuer:

PUTNAM MANAGED MUNICIPAL INCOME TRUST

(c) Address of Issuer's Principal Executive Offices:

100 FEDERAL STREET, BOSTON, MASSACHUSETTS , 02110.

Item 1 Comment: This Amendment No. 2 (this "Amendment") amends, as set forth below, the statement on Schedule 13D, dated January 1, 2011 and filed with the SEC on January 11, 2011 (as amended to the date hereof, the "Original Schedule 13D") for Bank of America Corporation ("BAC"), Bank of America, N.A. ("BANA"), Merrill Lynch, Pierce, Fenner & Smith Incorporated ("Merrill Lynch"), and BofA Securities, Inc. ("BofA Securities") (collectively, the "Reporting Persons") with respect to the auction rate preferred shares ("ARPS Shares" CUSIP Numbers: 746823400, 746823202) of Putnam Managed Municipal Income Trust (the "Issuer"). This Amendment is being filed to disclose previously unreported trades and reflects the addition of new Reporting Persons and the elimination of previous Reporting Persons that no longer beneficially own any reportable securities.

Item 2. Identity and Background

(a) 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 5. Interest in Securities of the Issuer

(c) The Reporting Persons have effected the transactions in securities of the Issuer identified in Schedule III.

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 inserting the following exhibits in their place:

Exhibit 99.1 - Joint Filing Agreement
 Exhibit 99.2 - Schedule I
 Exhibit 99.3 - Schedule II
 Exhibit 99.4 - Schedule III

SIGNATURE

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.

BANK OF AMERICA CORP /DE/

Signature: /s/ Andres Ortiz

Name/Title: Andres Ortiz

Date: 12/20/2024

BANK OF AMERICA NA

Signature: /s/ Andres Ortiz

Name/Title: Andres Ortiz

Date: 12/20/2024

MERRILL LYNCH, PIERCE, FENNER & SMITH
INCORPORATED

Signature: /s/ Andres Ortiz

Name/Title: Andres Ortiz

Date: 12/20/2024

BOFA SECURITIES, INC.

Signature: /s/ Andres Ortiz

Name/Title: Andres Ortiz

Date: 12/20/2024

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 20, 2024

BANK OF AMERICA CORPORATION

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

BANK OF AMERICA N.A.

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

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
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
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, Deloitte LLP
Jose E. Almeida	Director	Chairman, President and Chief Executive Officer of Baxter International Inc.
Pierre J.P. de Weck ¹	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	Lead Independent Director, Target Corporation; Former Chief Executive Officer, Former College Futures Foundation and Former Chairman, US Hispanic Media Inc.
Denise L. Ramos	Director	Former Chief Executive Officer and President of ITT Inc.

Clayton S. Rose	Director	Baker Foundation Professor of Management Practice at Harvard Business School
Michael D. White	Director	Former Chairman, President, and Chief Executive Officer of DIRECTV
Thomas D. Woods ²	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

¹ Mr. de Weck is a citizen of Switzerland.

² Mr. Woods is a citizen of Canada.

The following sets forth the name and present principal occupation of each executive officer and director of Bank of America, National Association. The business address of each of the executive officers and directors of Bank of America, National Association is 100 North Tryon Street, Suite 170, Charlotte, North Carolina 28202.

<u>Name</u>	<u>Position with Bank of America, National Association</u>	<u>Principal Occupation</u>
Brian T. Moynihan	Chief Executive Officer, President and Director	Chief Executive Officer of Bank of America Corporation
Paul M. Donofrio	Vice Chair	Vice Chair 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
Thong M. Nguyen	Vice Chair, Head of Global Strategy & Enterprise Platforms	Vice Chair, Head of Global Strategy & Enterprise Platforms of Bank of America Corporation
Aditya Bhasin	Chief Technology and Information Officer	Chief Technology and Information Officer of Bank of America Corporation
Sheri Bronstein	Chief Human Resources Officer	Chief Human Resources Officer of Bank of America Corporation
Alastair Borthwick	Chief Financial Officer	Chief Financial Officer of Bank of America Corporation
Geoffrey Greener	Chief Risk Officer	Chief Risk Officer of Bank of America Corporation
Tom M. Scrivener	Chief Operations Executive	Chief Operations Executive of Bank of America Corporation
D. Steve Boland	Chief Administrative Officer	Chief Administrative Officer 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
Dean C. Athanasia	President, Regional Banking	President, Regional 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
Lauren A. Mogensen	Global General Counsel	Global General Counsel of Bank of America Corporation
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 ³	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	Lead Independent Director, Target Corporation; Former Chief Executive Officer, Former College Futures Foundation and Former Chairman, US Hispanic Media Inc.
Lionel L. Nowell, III	Director	Lead Independent Director of Bank of America Corporation; Former Senior Vice President and Treasurer, PepsiCo Inc.
Denise L. Ramos	Director	Former Chief Executive Officer and President of ITT Inc.
Clayton S. Rose	Director	Baker Foundation Professor of Management Practice at Harvard Business School
Michael D. White	Director	Former Chairman, President, and Chief Executive Officer of DIRECTV
Thomas D. Woods ⁴	Director	Former Vice Chairman and Senior Executive Vice President of Canadian Imperial Bank of Commerce; Former Chairman, Hydro One Limited

³ Mr. de Weck is a citizen of Switzerland.

⁴ Mr. Woods is a citizen of Canada.

The following sets forth the name and present principal occupation of each executive officer and director of Merrill Lynch, Pierce, Fenner & Smith Incorporated. The business address of each of the executive officers and directors of Merrill Lynch, Pierce, Fenner & Smith Incorporated is One Bryant Park, New York, NY 10036.

<u>Name</u>	<u>Position with Merrill Lynch, Pierce, Fenner & Smith Incorporated</u>	<u>Principal Occupation</u>
Eric Schimpf	Chief Executive Officer and Director	President, Co-Head Merrill Wealth Management of Bank of America Corporation
Lorna R. Sabbia	Director	Managing Director; Head of Workplace Benefits: Consumer and Small Business
Nancy Fahmy	Director	Managing Director; Head of Investment Solutions Group: Merrill Wealth Management
Lindsay DeNardo Hans	Director	President, Co-Head Merrill Wealth Management of Bank of America Corporation
Matthew T. Gellene	Director	Managing Director; Head of Consumer Investments: Consumer and Small Business
Faruqe Alam	Chief Financial Officer and Managing Director	Managing Director; BofA Securities, Inc. and Merrill Lynch, Pierce, Fenner & Smith CFO, Broker Dealer Legal Entity Controller
David C. Heaton	Chief Legal Officer and Managing Director	Deputy General Counsel & Managing Director; Legal Executive
Joseph A. Guardino	Chief Operations Officer and Managing Director	Managing Director; Equities Ops, Client Service, EMEA & AMRS Branch Ops and LATAM & Canada Ops: Global Operations
Michael Karam	Chief Compliance Officer	Managing Director; Compliance and Operational Risk Executive – Registered: Global Risk Management
Susan Axelrod	Managing Director	Managing Director; Merrill, Private Bank, & Wealth Mgmt CRO/Compliance & Op Risk, Electronic Comms: Global Risk Management
Manami Ishii	Treasurer and Managing Director	Director; Sr Asset Liability Manager, The CFO Group
Samantha J. Leventhal	Anti-Money Laundering Compliance Officer	Managing Director; Global Financial Crimes Executive I

The following sets forth the name and present principal occupation of each executive officer and director of BofA Securities, Inc. The business address of each of the executive officers and directors of BofA Securities, Inc. is One Bryant Park, New York, NY 10036.

<u>Name</u>	<u>Position with BofA Securities, Inc.</u>	<u>Principal Occupation</u>
Soofian J. Zuberi	Chairman of the Board, Chief Executive Officer and Director	Managing Director; Head of Global Equities
Laura Chepucavage	Director	Managing Director; Head of Global Financing & Futures, Global Rates and Counterparty Portfolio Mgmt
Sarang R. Gadkari	Director	Managing Director; Co-Head of Global Capital Markets
Matthew C. McQueen	Director	Managing Director; Head of Global Mortgages & Securitized Products and Municipal Banking & Markets
Faruqe Alam	Chief Financial Officer	Managing Director; BofA Securities, Inc. and Merrill Lynch, Pierce, Fenner & Smith CFO, Broker Dealer Legal Entity Controller
Glen A. Rae	Chief Legal Officer	Deputy General Counsel & Managing Director; Legal Executive
Joseph A. Guardino	Chief Operations Officer and Managing Director	Managing Director; Equities Operations, Client Service, EMEA & AMRS Branch Operations and LATAM & Canada Operations
Kashyap Bhatia	Chief Compliance Officer/ Broker-Dealer; Co-Chief Compliance Officer/Futures Commission Merchant	Managing Director; Global Markets Compliance and Operational Risk Executive
Edward McLaren	Chief Compliance Officer/Futures Commission Merchant and Managing Director	Managing Director; Compliance and Operational Risk Executive
Claire Bliss	Chief Compliance Officer/Registered Investment Advisor	Managing Director; Compliance and Operational Risk Executive
Manami Ishii	Treasurer and Managing Director	Director; Sr Asset Liability Manager, The CFO Group
Luigi Ricciardi	Anti-Money Laundering Compliance Officer	Director; Global Financial Crimes Executive I

Schedule II

SCHEDULE OF LITIGATION

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.

Schedule III

The following table sets forth all unreported transactions with respect to common stock effected by or on behalf of the Reporting Persons. All of their transactions were effectuated for cash.

PUTNAM MANAGED MUNICIPAL INCOME TRUST (PMM)

COMMON STOCK

TRADE DATE	BUY/SELL	QUANTITY	PRICE	EXECUTION
03/13/2013	S	2,000	\$ 7.9101	OTC
03/15/2013	B	102	\$ 7.8	OTC
03/15/2013	B	700	\$ 7.8	OTC
03/15/2013	B	700	\$ 7.8	OTC
03/15/2013	B	398	\$ 7.8	OTC
03/15/2013	B	100	\$ 7.8	OTC
04/23/2014	B	435	\$ 7.1199	OTC
04/23/2014	S	100	\$ 7.11	OTC
04/23/2014	S	235	\$ 7.11	OTC
04/23/2014	S	100	\$ 7.11	OTC
01/15/2015	S	2,790	\$ 7.3433	OTC
01/15/2015	B	100	\$ 7.3493	OTC
01/15/2015	B	2,690	\$ 7.3493	OTC
04/10/2015	B	704	\$ 7.3624	OTC
04/14/2015	S	704	\$ 7.3427	OTC
04/15/2015	B	510	\$ 7.3983	OTC
04/15/2015	B	1,026	\$ 7.3983	OTC
04/17/2015	S	510	\$ 7.3801	OTC
04/17/2015	S	1,026	\$ 7.3801	OTC
06/18/2015	S	2,035	\$ 7.0801	OTC
06/25/2015	B	2,035	\$ 7.1182	OTC
05/02/2016	S	1,065	\$ 7.742	OTC
05/03/2016	B	100	\$ 7.77	OTC
05/03/2016	B	201	\$ 7.77	OTC
05/03/2016	B	265	\$ 7.77	OTC
05/03/2016	B	499	\$ 7.77	OTC
09/21/2017	S	3,800	\$ 7.5199	OTC
09/21/2017	B	3	\$ 7.52	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	3	\$ 7.515	OTC
09/21/2017	B	400	\$ 7.52	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	93	\$ 7.52	OTC
09/21/2017	B	99	\$ 7.52	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	400	\$ 7.52	OTC
09/21/2017	B	63	\$ 7.53	OTC
09/21/2017	B	1	\$ 7.515	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	84	\$ 7.515	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	400	\$ 7.52	OTC
09/21/2017	B	141	\$ 7.53	OTC
09/21/2017	B	200	\$ 7.52	OTC
09/21/2017	B	7	\$ 7.515	OTC
09/21/2017	B	97	\$ 7.52	OTC
09/21/2017	B	300	\$ 7.52	OTC
09/21/2017	B	100	\$ 7.52	OTC
09/21/2017	B	2	\$ 7.515	OTC
09/21/2017	B	400	\$ 7.53	OTC
09/21/2017	B	100	\$ 7.53	OTC
09/21/2017	B	98	\$ 7.52	OTC
09/21/2017	B	100	\$ 7.52	OTC

09/21/2017	B	100	\$	7.53	OTC
09/21/2017	B	100	\$	7.53	OTC
09/21/2017	B	9	\$	7.53	OTC
06/26/2019	B	5,000	\$	7.6599	OTC
06/26/2019	B	5,000	\$	7.6599	OTC
06/27/2019	S	100	\$	7.62	OTC
06/27/2019	S	200	\$	7.63	OTC
06/27/2019	S	400	\$	7.62	OTC
06/27/2019	S	2,900	\$	7.6	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	300	\$	7.62	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	200	\$	7.63	OTC
06/27/2019	S	50	\$	7.63	OTC
06/27/2019	S	400	\$	7.62	OTC
06/27/2019	S	100	\$	7.635	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	100	\$	7.6	OTC
06/27/2019	S	200	\$	7.61	OTC
06/27/2019	S	100	\$	7.61	OTC
06/27/2019	S	80	\$	7.63	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	100	\$	7.61	OTC
06/27/2019	S	100	\$	7.6	OTC
06/27/2019	S	100	\$	7.61	OTC
06/27/2019	S	300	\$	7.61	OTC
06/27/2019	S	588	\$	7.62	OTC
06/27/2019	S	682	\$	7.6	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	400	\$	7.61	OTC
06/27/2019	S	100	\$	7.62	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	100	\$	7.62	OTC
06/27/2019	S	400	\$	7.61	OTC
06/27/2019	S	400	\$	7.61	OTC
06/27/2019	S	100	\$	7.6	OTC
06/27/2019	S	400	\$	7.61	OTC
06/27/2019	S	100	\$	7.63	OTC
06/27/2019	S	400	\$	7.61	OTC
12/17/2019	B	5,901	\$	8.0629	OTC
12/18/2019	S	5,901	\$	8.0683	OTC
04/13/2022	B	600	\$	6.98	OTC
04/13/2022	S	600	\$	6.6422	OTC
08/23/2022	B	4,600	\$	6.797	OTC
08/24/2022	S	800	\$	6.72	OTC
08/24/2022	S	200	\$	6.72	OTC
08/24/2022	S	100	\$	6.72	OTC
08/24/2022	S	1,000	\$	6.71	OTC
08/24/2022	S	100	\$	6.72	OTC
08/24/2022	S	200	\$	6.72	OTC
08/24/2022	S	1,000	\$	6.73	OTC
08/24/2022	S	1,000	\$	6.72	OTC
08/24/2022	S	200	\$	6.73	OTC
12/13/2023	S	100	\$	5.9712	OTC
12/15/2023	B	100	\$	6.12	OTC