

PUTNAM MANAGED MUNICIPAL INCOME TRUST
Form DEF 14A
August 18, 2010

SCHEDULE 14A INFORMATION

Proxy Statement Pursuant to Section 14(a)
of the Securities Exchange Act of 1934

Filed by the Registrant / X /

Filed by a Party other than the Registrant

/ /

Check the appropriate box:

/ / Preliminary Proxy Statement

/ / Confidential, for Use of the Commission Only (as permitted by Rule
14a-6(e)(2))

/ X / Definitive Proxy Statement

/ / Definitive Additional Materials

/ / Soliciting Material Pursuant to Sec. 240.14a-12

PUTNAM MANAGED MUNICIPAL INCOME TRUST

(Name of Registrant as Specified in its Charter)

(Name of Person(s) Filing Proxy Statement,
if Other Than the Registrant)

Payment of Filing Fee (Check the appropriate box):

/ X / No fee required.

/ / Fee computed on table below per Exchange Act Rule 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

/ / Fee paid previously with preliminary materials.

/ / Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

Proxy statement

Putnam Managed Municipal Income Trust

August 18, 2010

A Message from Putnam Investments and the Board of Trustees of the Putnam Funds

Dear Fellow Shareholder:

I am writing to ask for your vote on an important matter affecting your investment in the Putnam funds. While you are, of course, welcome to join us at your fund's meeting, most shareholders cast their vote by filling out and signing the enclosed proxy card(s), voting via the Internet or by calling. We are asking for your vote on the

following matter:

Fixing the number of Trustees at 14 and electing your fund's nominees for Trustees.

Although Trustees do not manage fund portfolios, they play an important role in protecting shareholders, and are responsible for approving the fees paid to your fund's investment adviser and its affiliates, reviewing overall fund expenses, selecting the fund's auditors, monitoring conflicts of interest, overseeing the fund's compliance with federal securities laws and voting proxies for the fund's portfolio securities. Consistent with the Investment Company Act and SEC rules, more than three-quarters of your fund's Trustees currently are independent of the fund and Putnam Investments.

Please vote today

Your vote is important to us. Delaying your vote will increase fund expenses if further mailings are required. If you vote via the Internet or by telephone or complete your proxy card(s), your shares will be voted on your behalf exactly as you have instructed. If you simply sign the proxy card(s), your shares will be voted in accordance with the Trustees' recommendation.

We appreciate your attention to this important matter. If you have questions about this proposal, please call a customer service representative at 1-800-225-1581 or contact your financial advisor.

Table of contents

Notice of Annual Meeting of Shareholders	4
Trustees' Recommendation	5
The Proposal	6
Further Information About Voting and the Meeting	24
Fund Information	27

PROXY CARD(S) ENCLOSED

If you have any questions, please contact us at 1-800-225-1581 or call your financial advisor.

Important Notice Regarding the Availability of Proxy Materials for the Shareholder Meeting to be held on September 10, 2010.

**The proxy statement is available at
www.proxyonline.com.**

Notice of Annual Meeting of Shareholders

To the Shareholders of Putnam Managed Municipal Income Trust:

This is the formal agenda for your fund's shareholder meeting. It tells you what proposal will be voted on and the time and place of the meeting, in the event you attend in person.

The Annual Meeting of Shareholders of your fund will be held on September 10, 2010 at 11:00 a.m., Boston time, at the principal offices of the fund on the 8th floor of One Post Office Square, Boston, Massachusetts 02109, to consider the following proposal:

1. Fixing the number of Trustees at 14 and electing your fund's nominees for Trustees. See page 6.

By Judith Cohen, Clerk, and by the Trustees

John A. Hill, Chairman

Jameson A. Baxter, Vice Chairman

Ravi Akhoury	Kenneth R. Leibler
Barbara M. Baumann	Robert E. Patterson
Charles B. Curtis	George Putnam, III
Robert J. Darretta	Robert L. Reynolds
Myra R. Drucker	W. Thomas Stephens
Paul L. Joskow	Richard B. Worley

In order for you to be represented at your fund's shareholder meeting, we urge you to record your voting instructions via the Internet or by telephone or to mark, sign, date, and mail the enclosed proxy card(s) in the postage-paid envelope provided.

August 18, 2010

4

Proxy Statement

This document will give you the information you need to vote on the proposal. Much of the information is required under rules of the Securities and Exchange Commission ("SEC"); some of it is technical. If there is anything you don't understand, please contact us at our toll-free number, 1-800-225-1581, or call your financial advisor.

Who is asking for your vote?

Your vote is being solicited by the Trustees of Putnam Managed Municipal Income Trust for use at the Annual Meeting of Shareholders of the fund to be held on September 10, 2010, and, if your fund's meeting is adjourned, at any later meetings, for the purpose stated in the Notice of Annual Meeting of Shareholders (see page 4). The Notice of Annual Meeting of Shareholders, the enclosed proxy card(s) and this proxy statement are being mailed on or about August 18, 2010.

How do your fund's Trustees recommend that shareholders vote on this proposal?

The Trustees recommend that you vote

1. FOR fixing the number of Trustees at 14 and electing your fund's nominees for Trustees.

Who is eligible to vote?

Shareholders of record at the close of business on June 14, 2010 (the "Record Date") are entitled to be present and to vote at the meeting or any adjourned meeting.

Each share is entitled to one vote. Unless otherwise noted, the holders of your fund's preferred shares and holders of your fund's common shares will vote as a single class. Shares represented by a duly executed proxy will be voted in accordance with your instructions. If a duly executed proxy is submitted without filling in a vote on the proposal, your shares will be voted in accordance with the Trustees' recommendation. If any other matters properly come before the meeting, your shares will be voted on such matters in accordance with the judgment of the persons designated on the enclosed proxy card(s).

5

The Proposal

I. ELECTION OF TRUSTEES

Who are the nominees for Trustees?

The Board Policy and Nominating Committee of the Trustees of the fund makes recommendations concerning the nominees for Trustees of your fund. The Board Policy and Nominating Committee consists solely of Trustees who are not "interested persons" (as defined in the Investment Company Act of 1940, as amended, the "1940 Act") of your fund or of Putnam Investment Management, LLC, your fund's investment manager ("Putnam Management"). Those Trustees who are not "interested persons" of your fund or Putnam Management are referred to as "Independent Trustees" throughout this proxy statement.

The Board of Trustees, based on the recommendation of the Board Policy and Nominating Committee, has fixed the number of Trustees of your fund at 14 and recommends that you vote for the election of the nominees described in the following pages. Each nominee is currently a Trustee of your fund and of the other Putnam funds.

Pursuant to the bylaws of your fund and the 1940 Act, holders of the preferred shares of your fund, voting as a class, are entitled to elect two nominees for Trustees. The holders of the preferred shares and the common shares of your fund, voting together as a single class, are entitled to vote for the remaining 12 of the 14 nominees. Messrs. Hill and Patterson have been nominated to be elected as Trustees by the holders of the preferred shares, and the other 12 nominees have been nominated to be elected by the holders of the preferred shares and common shares voting together as a single class.

5

Edgar Filing: PUTNAM MANAGED MUNICIPAL INCOME TRUST - Form DEF 14A

The nominees for Trustees and their backgrounds are shown in the following pages. This information includes each nominee's name, year of birth, principal occupation(s) during the past 5 years, and other information about the nominee's professional background, including other directorships the nominee holds. The address of all of the Trustees is One Post Office Square, Boston, Massachusetts 02109. At June 30, 2010, there were 105 Putnam funds.

Independent Trustees

Ravi Akhoury (Born 1947)

Trustee since 2009

Mr. Akhoury serves as Advisor to New York Life Insurance Company. He is also a Director of Jacob Ballas Capital India (a non-banking finance company focused on private equity advisory services) and is a member of its Compensation Committee. He also serves as a Trustee of the Rubin Museum, serving on the Investment Committee, and of American India Foundation.

6

Previously, Mr. Akhoury was a Director and on the Compensation Committee of MaxIndia/New York Life Insurance Company in India. He was also Vice President and Investment Policy Committee member of Fischer, Francis, Trees and Watts (a fixed-income portfolio management firm). He has also served on the Board of Bharti Telecom (an Indian telecommunications company), serving as a member of its Audit and Compensation Committees, and as a Director and member of the Audit Committee on the Board of Thompson Press (a publishing company). From 1992 to 2007, he was Chairman and CEO of MacKay Shields, a multi-product investment management firm with over \$40 billion in assets under management.

Mr. Akhoury graduated from the Indian Institute of Technology with a B.S. in Engineering and obtained an M.S. in Quantitative Methods from SUNY at Stony Brook.

Barbara M. Baumann (Born 1955)

Trustee since 2010

Ms. Baumann is President of Cross Creek Energy Corporation, a strategic consultant to domestic energy firms and direct investor in energy assets.

Ms. Baumann currently serves as a Director of SM Energy Company (a publicly held U.S. exploration and production company) and Unisource Energy Corporation (a publicly held electric utility in Arizona), as well as Cody Resources Management, LLP (a privately held energy, ranching, and commercial real estate company). Ms. Baumann is a Trustee of Mount Holyoke College and co-chairs the Board's Finance Committee. She is the former Chair of the Board and a current Board member of Girls Inc. of Metro Denver, and serves on the Finance Committee of The Children's Hospital of Denver.

Prior to forming Cross Creek Energy Corporation in 2003, Ms. Baumann was Executive Vice President of Associated Energy Managers, a domestic private equity firm. From 1981 until 2000, she held a variety of financial and operational management positions with the global energy company Amoco Corporation and its successor, BP, most recently serving as Commercial Operations Manager of its Western Business Unit.

Ms. Baumann holds an M.B.A. from The Wharton School of the University of Pennsylvania and a B.A. from Mount Holyoke College.

Jameson A. Baxter (Born 1943)

Trustee since 1994 and Vice Chairman since 2005

Ms. Baxter is the President of Baxter Associates, Inc., a private investment firm.

Ms. Baxter serves as a Director of ASHTA Chemicals, Inc., and as Chairman of the Mutual Fund Directors Forum. Until 2007, she was a Director of Banta Corporation (a printing and supply chain management company), Ryerson, Inc. (a metals service corporation), and Advocate Health Care. Until 2004,

7

she was a Director of BoardSource (formerly the National Center for Nonprofit Boards), and until 2002, she was a Director of Intermatic Corporation (a manufacturer of energy control products). She is Chairman Emeritus of the Board of Trustees of Mount Holyoke College, having served as Chairman for five years.

Ms. Baxter has held various positions in investment banking and corporate finance, including Vice President of and Consultant to First Boston Corporation and Vice President and Principal of the Regency Group. She is a graduate of Mount Holyoke College.

Charles B. Curtis (Born 1940)

Trustee since 2001

Mr. Curtis is President Emeritus of the Nuclear Threat Initiative (a private foundation dealing with national security issues), and serves as Senior Advisor to the United Nations Foundation and as Senior Advisor to the Center for Strategic and International Studies.

Mr. Curtis is a member of the Council on Foreign Relations and the National Petroleum Council. He also serves as a Director of Edison International and Southern California Edison. Until 2006, Mr. Curtis served as a member of the Trustee Advisory Council of the Applied Physics Laboratory, Johns Hopkins University.

Mr. Curtis is an attorney with over 15 years in private practice and 19 years in various positions in public service, including service at the Department of Treasury, the U.S. House of Representatives, the Securities and Exchange Commission, the Federal Energy Regulatory Commission and the Department of Energy.

Robert J. Darretta (Born 1946)

Trustee since 2007

Mr. Darretta serves as Director of UnitedHealth Group, a diversified health care company, and as the Health Care Industry Advisor to Permira, a global private equity firm.

Until April 2007, Mr. Darretta was Vice Chairman of the Board of Directors of Johnson & Johnson, one of the world's largest and most broadly based health care companies. Prior to 2007, he had responsibility for Johnson & Johnson's finance, investor relations, information technology, and procurement functions. He served as Johnson & Johnson Chief Financial Officer for a decade, prior to which he spent two years as Treasurer of the corporation and over ten years leading various Johnson & Johnson operating companies.

Mr. Darretta received a B.S. in Economics from Villanova University.

Myra R. Drucker (Born 1948)

Trustee since 2004

Ms. Drucker is Vice Chair of the Board of Trustees of Sarah Lawrence College, and a member of the Investment Committee of the Kresge Foundation (a charitable trust). She is also a member of the Board of Directors of Grantham, Mayo, Van Otterloo & Co., LLC (an investment management firm). Ms. Drucker retired in 2009 as Chair of the Board of Trustees of Commonfund (a not-for-profit firm managing assets for educational endowments and foundations).

Ms. Drucker is an ex-officio member of the New York Stock Exchange Pension Managers Advisory Committee, having served as Chair for seven years. She serves as an advisor to the Employee Benefits Investment Committee of The Boeing Company (an aerospace firm).

From November 2001 until August 2004, Ms. Drucker was Managing Director and a member of the Board of Directors of General Motors Asset Management and Chief Investment Officer of General Motors Trust Bank. From December 1992 to November 2001, Ms. Drucker served as Chief Investment Officer of Xerox Corporation (a document company). Prior to December 1992, Ms. Drucker was Staff Vice President and Director of Trust Investments for International Paper (a paper and packaging company).

Ms. Drucker received a B.A. degree in Literature and Psychology from Sarah Lawrence College and pursued graduate studies in economics, statistics, and portfolio theory at Temple University.

John A. Hill (Born 1942)

Trustee since 1985 and Chairman since 2000

Mr. Hill is founder and Vice Chairman of First Reserve Corporation, the leading private equity buyout firm specializing in the worldwide energy industry, with offices in Greenwich, Connecticut; Houston, Texas; London, England; and Shanghai, China. The firm's investments on behalf of some of the nation's largest pension and endowment funds are currently concentrated in 31 companies with annual revenues in excess of \$15 billion, which employ over 100,000 people in 23 countries.

Mr. Hill is a Director of Devon Energy Corporation and various private companies owned by First Reserve, and serves as a Trustee of Sarah Lawrence College where he serves as Chairman and also chairs the Investment Committee. He is also a member of the Advisory Board of the Millstein Center for Corporate Governance and Performance at the Yale School of Management.

Prior to forming First Reserve in 1983, Mr. Hill served as President of F. Eberstadt and Company, an investment banking and investment management firm. Between 1969 and 1976, Mr. Hill held various senior positions in Washington, D.C. with the federal government, including Deputy Associate Director of the Office of Management and Budget and Deputy Administrator of the Federal Energy Administration during the Ford Administration.

Edgar Filing: PUTNAM MANAGED MUNICIPAL INCOME TRUST - Form DEF 14A

Born and raised in Midland, Texas, he received his B.A. in Economics from Southern Methodist University and pursued graduate studies as a Woodrow Wilson Fellow.

Paul L. Joskow (Born 1947)

Trustee since 1997

Dr. Joskow is an economist and President of the Alfred P. Sloan Foundation (a philanthropic institution focused primarily on research and education on issues related to science, technology, and economic performance). He is on leave from his position as the Elizabeth and James Killian Professor of Economics and Management at the Massachusetts Institute of Technology (MIT), where he has been on the faculty since 1972. Dr. Joskow was the Director of the Center for Energy and Environmental Policy Research at MIT from 1999 through 2007.

Dr. Joskow serves as a Trustee of Yale University, as a Director of TransCanada Corporation (an energy company focused on natural gas transmission and power services) and of Exelon Corporation (an energy company focused on power services), and as a member of the Board of Overseers of the Boston Symphony Orchestra. Prior to August 2007, he served as a Director of National Grid (a UK-based holding company with interests in electric and gas transmission and distribution and telecommunications infrastructure). Prior to July 2006, he served as President of the Yale University Council. Prior to February 2005, he served on the Board of the Whitehead Institute for Biomedical Research (a non-profit research institution). Prior to February 2002, he was a Director of State Farm Indemnity Company (an automobile insurance company), and prior to March 2000, he was a Director of New England Electric System (a public utility holding company).

Dr. Joskow has published six books and numerous articles on industrial organization, government regulation of industry, and competition policy. He is active in industry restructuring, environmental, energy, competition, and privatization policies — serving as an advisor to governments and corporations worldwide. Dr. Joskow holds a Ph.D. and M.Phil. from Yale University and a B.A. from Cornell University.

10

Kenneth R. Leibler (Born 1949)

Trustee since 2006

Mr. Leibler is a founder and former Chairman of the Boston Options Exchange, an electronic marketplace for the trading of listed derivatives securities.

Mr. Leibler currently serves as Vice Chairman of the Board of Trustees of Beth Israel Deaconess Hospital in Boston. He is also a Director of Ruder Finn Group, a global communications and advertising firm, and a Director of Northeast Utilities, which operates New England's largest energy delivery system. Prior to December 2006, he served as a Director of the Optimum Funds group. Prior to October 2006, he served as a Director of ISO New England, the organization responsible for the operation of the electric generation system in the New England states. Prior to 2000, Mr. Leibler was a Director of the Investment Company Institute in Washington, D.C.

Prior to January 2005, Mr. Leibler served as Chairman and Chief Executive Officer of the Boston Stock Exchange. Prior to January 2000, he served as President and Chief Executive Officer of Liberty Financial Companies, a publicly traded diversified asset management organization. Prior to June 1990, Mr. Leibler served as President and Chief Operating Officer of the American Stock Exchange (AMEX), and at the time was the youngest person in AMEX history to hold the title of President. Prior to serving as AMEX President, he held the position of Chief Financial Officer, and headed its management and marketing operations. Mr. Leibler graduated with a degree in Economics from Syracuse University.

Robert E. Patterson (Born 1945)

Trustee since 1984

Mr. Patterson is Senior Partner of Cabot Properties, LP and Co-Chairman of Cabot Properties, Inc. (a private equity firm investing in commercial real estate).

Mr. Patterson is past Chair and served as a Trustee of the Joslin Diabetes Center. Prior to June 2003, he was a Trustee of the Sea Education Association. Prior to December 2001, Mr. Patterson was President and Trustee of Cabot Industrial Trust (a publicly traded real estate investment trust). Prior to February 1998, he was Executive Vice President and Director of Acquisitions of Cabot Partners Limited Partnership (a registered investment adviser involved in institutional real estate investments). Prior to 1990, he served as Executive Vice President of Cabot, Cabot & Forbes Realty Advisors, Inc. (the predecessor company of Cabot Partners).

Mr. Patterson practiced law and held various positions in state government, and was the founding Executive Director of the Massachusetts Industrial Finance Agency. Mr. Patterson is a graduate of Harvard College and Harvard Law School.

11

George Putnam, III (Born 1951)

Trustee since 1984

Mr. Putnam is Chairman of New Generation Research, Inc. (a publisher of financial advisory and other research services), and President of New Generation Advisors, LLC (a registered investment adviser to private funds). Mr. Putnam founded the New Generation companies in 1986.

Mr. Putnam is a Director of The Boston Family Office, LLC (a registered investment adviser). He is a Trustee of St. Mark's School, a Trustee of Epiphany School and a Trustee of the Marine Biological Laboratory in Woods Hole, Massachusetts. Prior to 2007, Mr. Putnam was President of the Putnam Funds. Until 2006, he was a Trustee of Shore Country Day School, and until 2002, was a Trustee of the Sea Education Association.

Mr. Putnam previously worked as an attorney with the law firm of Dechert LLP (formerly known as Dechert Price & Rhoads) in Philadelphia. He is a graduate of Harvard College, Harvard Business School, and Harvard Law School.

W. Thomas Stephens (Born 1942)

Trustee from 1997 to 2008, and since 2009

Mr. Stephens retired as Chairman and Chief Executive Officer of Boise Cascade, LLC (a paper, forest products and timberland assets company) in December 2008.

Mr. Stephens is a Director of TransCanada Pipelines, Ltd. (an energy infrastructure company). Until 2004, Mr. Stephens was a Director of Xcel Energy Incorporated (a public utility company), Qwest Communications and Norske Canada, Inc. (a paper manufacturer). Until 2003, Mr. Stephens was a Director of Mail-Well, Inc. (a diversified printing company). He served as Chairman of Mail-Well until 2001 and as CEO of MacMillan-Bloedel, Ltd. (a forest products company) until 1999.

Prior to 1996, Mr. Stephens was Chairman and Chief Executive Officer of Johns Manville Corporation (a manufacturing company). He holds B.S. and M.S. degrees from the University of Arkansas.

Richard B. Worley (Born 1945)

Trustee since 2004

Mr. Worley is Managing Partner of Permit Capital LLC, an investment management firm.

Mr. Worley is an Independent Director of Neuberger Berman, an investment management firm. He also serves as a Trustee of the University of Pennsylvania Medical Center, the Robert Wood Johnson Foundation (a philanthropic organization devoted to health care issues), and the National Constitution Center. He is also a Director of the Colonial Williamsburg Foundation

12

(a historical preservation organization) and Chairman of the Philadelphia Orchestra Association. Mr. Worley also serves on the investment committees of Mount Holyoke College and World Wildlife Fund (a wildlife conservation organization).

Prior to joining Permit Capital LLC in 2002, Mr. Worley served as President, Chief Executive Officer, and Chief Investment Officer of Morgan Stanley Dean Witter Investment Management and as a Managing Director of Morgan Stanley, a financial services firm. Mr. Worley also was the Chairman of Miller Anderson & Sherrerd, an investment management firm that was acquired by Morgan Stanley in 1996.

Mr. Worley holds a B.S. degree from the University of Tennessee and pursued graduate studies in economics at the University of Texas.

Interested Trustee

Robert L. Reynolds* (Born 1952)

Trustee since 2008 and President of the Putnam Funds since July 2009

Mr. Reynolds is President and Chief Executive Officer of Putnam Investments, a member of Putnam Investments' Executive Board of Directors, and President of the Putnam Funds. He has more than 30 years of investment and financial services experience.

Prior to joining Putnam Investments in 2008, Mr. Reynolds was Vice Chairman and Chief Operating Officer of Fidelity Investments from 2000 to 2007. During this time, he served on the Board of Directors for FMR Corporation, Fidelity Investments Insurance Ltd., Fidelity Investments Canada Ltd., and Fidelity Management Trust Company. He was also a Trustee of the Fidelity Family of Funds. From 1984 to 2000, Mr. Reynolds served in a number of increasingly responsible leadership roles at Fidelity.

Mr. Reynolds serves on several not-for-profit boards, including those of the West Virginia University Foundation, Concord Museum, Dana-Farber Cancer Institute, Lahey Clinic, and Initiative for a Competitive Inner City in Boston. He is a member of the Chief Executives Club of Boston, the National Innovation Initiative, and the Council on Competitiveness.

Mr. Reynolds received a B.S. in Business Administration/Finance from West Virginia University.

* Nominee who is an "interested person" of the fund and/or Putnam Management and/or Putnam Retail Management Limited Partnership ("Putnam Retail Management"). Mr. Reynolds is deemed an "interested person" by virtue of his position as an officer of the fund, Putnam Management and/or Putnam Retail Management. Mr. Reynolds is the President and Chief Executive Officer of Putnam Investments and the President of the Putnam Funds.

Each of the fund's Trustees, with the exception of Ms. Baumann, was most recently elected by shareholders of the fund on October 29, 2009, although most of the Trustees have served on the Board for many years. Ms. Baumann was appointed to the Board of Trustees by the Independent Trustees effective July 1, 2010.

The Board Policy and Nominating Committee is responsible for recommending proposed nominees for election to the full Board of Trustees for its approval. In recommending the election or appointment of the current Board members as Trustees, the Committee generally considered the educational, business and professional experience of each Trustee in determining his or her qualifications to serve as a Trustee of the fund, including the Trustee's record of service as a director or trustee of public and private organizations. In the case of most members of the Board, this included their previous service as a member of the Board of Trustees of the Putnam funds, during which they have demonstrated a high level of diligence and commitment to the interests of fund shareholders and the ability to work effectively and collegially with other members of the Board. The Committee also considered, among other factors, the particular attributes described below with respect to the various individual Trustees:

Ravi Akhoury □ Mr. Akhoury's experience as chief investment officer and chief executive officer of a major investment management organization.

Barbara M. Baumann □ Ms. Baumann's experience in the energy industry as a consultant, an investor, and in both financial and operational management positions at a global energy company, and her service as a director of two NYSE companies.

Jameson A. Baxter □ Ms. Baxter's experience in corporate finance acquired in the course of her career at a major investment bank, her experience as a director and audit committee chair of two NYSE companies and her role as a founding Board member of the Mutual Fund Directors Forum.

Charles B. Curtis □ Mr. Curtis's experience in public and regulatory policy matters relating to energy and finance acquired in the course of his service in various senior positions in government and on numerous boards of public and private organizations.

Robert J. Darretta □ Mr. Darretta's experience as the Chief Financial Officer and Vice Chairman of the Board of a major NYSE health products company.

Myra R. Drucker □ Ms. Drucker's experience as investment officer for major retirement plans, which included selection and oversight of unaffiliated investment managers and oversight of accounting and custody operations, and her prior service as a member of the NYSE Corporate Accountability and Listing Standards Committee.

John A. Hill □ Mr. Hill's experience as founder and chairman of a major open-end mutual fund and as a founder and lead managing partner of one of the largest private equity firms in the U.S.

Paul L. Joskow □ Dr. Joskow's education and experience as a professional economist familiar with financial economics and related issues and his service on multiple for-profit boards.

Kenneth R. Leibler □ Mr. Leibler's extensive experience in the financial services industry, including as CEO of a major asset management organization, and his service as a director of various public and private companies.

14

Robert E. Patterson □ Mr. Patterson's training and experience as an attorney and his experience as president of a NYSE company.

George Putnam, III □ Mr. Putnam's training and experience as an attorney, his experience as the founder and chief executive officer of an investment management firm and his experience as an author of various publications on the

subject of investments.

Robert L. Reynolds □ Mr. Reynolds □ extensive experience as a senior executive of one of the largest mutual fund organizations in the U.S. and his current role as the Chief Executive Officer of Putnam Investments.

W. Thomas Stephens □ Mr. Stephens □ extensive business experience, including his service as Chief Executive Officer of four public companies, as non-executive chairman of two public companies and as a director of numerous other public companies.

Richard B. Worley □ Mr. Worley □s experience as president, chief investment officer and chief executive officer of a major investment management firm.

The 12 nominees for election as Trustees by the holders of common and preferred shares, voting as a single class, who receive the greatest number of votes from the preferred and common shareholders will be elected as Trustees of your fund. In addition, the two nominees for election as Trustees by the preferred shareholders, voting as a class, who receive the greatest number of votes from the preferred shareholders will be elected as Trustees of your fund.

Each of the nominees has agreed to serve as a Trustee, if elected. If any of the nominees is unavailable for election at the time of the meeting, which is not anticipated, the Trustees may vote for other nominees at their discretion, or the Trustees may fix the number of Trustees at fewer than 14 for your fund. Each Trustee serves until the election and qualification of his or her successor, or until he or she sooner dies, resigns, retires, or is removed.

What are the Trustees □ responsibilities?

Your fund □s Trustees are responsible for the general oversight of your fund □s affairs and for assuring that your fund is managed in the best interests of its shareholders. The Trustees regularly review your fund □s investment performance as well as the quality of other services provided to your fund and its shareholders by Putnam Management and its affiliates, including administration and shareholder servicing. At least annually, the Trustees review and evaluate the fees and operating expenses paid by your fund for these services and negotiate changes that they deem appropriate. In carrying out these responsibilities, the Trustees are assisted by an independent administrative staff and by your fund □s auditors, independent counsel and other experts as appropriate, selected by and responsible to the Trustees.

15

Board Leadership Structure. Currently, 13 of the 14 Trustees of your fund are Independent Trustees. These Independent Trustees must vote separately to approve all financial arrangements and other agreements with your fund □s investment manager and other affiliated parties. The role of the Independent Trustees has been characterized as that of a □watchdog□ charged with oversight to protect shareholders □ interests against overreaching and abuse by those who are in a position to control or influence a fund. Your fund □s Independent Trustees meet regularly as a group in executive session. Independent Trustees currently serve as chair and vice-chair of the Board.

Your fund □s Trustees have determined that the efficient conduct of the Board □s affairs makes it desirable to delegate responsibility for certain specific matters to committees of the Board. Certain committees (the Executive Committee, Distributions Committee, and Audit and Compliance Committee) are authorized to act for the Trustees as specified in their charters. The other committees review and evaluate matters specified in their charters and make recommendations to the Trustees as they deem appropriate. Each committee may utilize the resources of your fund □s independent staff, counsel and auditors as well as other experts. The committees meet as often as necessary, either in conjunction with regular meetings of the Trustees or otherwise. The membership and chair of each committee are appointed by the Trustees upon recommendation of the Board Policy and Nominating Committee. Each Committee is chaired by an Independent Trustee and, except as noted below, the membership and chairs of each committee consist exclusively of Independent Trustees.

13

The Trustees have determined that this committee structure also allows the Board to focus more effectively on the oversight of risk as part of its broader oversight of the fund's affairs. While risk management is the primary responsibility of the fund's investment manager, the Trustees regularly receive reports regarding investment risks and compliance risks. The Board's committee structure allows separate committees to focus on different aspects of these risks and their potential impact on some or all of the funds and to discuss with the fund's investment manager how it monitors and controls such risks.

Audit and Compliance Committee. The Audit and Compliance Committee provides oversight on matters relating to the preparation of the Putnam funds' financial statements, compliance matters, internal audit functions, and Codes of Ethics issues. This oversight is discharged by regularly meeting with management and the funds' independent auditors and keeping current on industry developments. Duties of this Committee also include the review and evaluation of all matters and relationships pertaining to the funds' independent auditors, including their independence. Information about the fees billed to the fund by the fund's independent auditors, as well as information about the Committee's pre-approval policies relating to work performed by the fund's independent auditors, is included on pages 28-30 of this proxy statement. The members of the Committee include only Independent Trustees. Each member of the Committee also is "independent", as that term is interpreted for

16

purposes of Rule 10A-3(b)(1) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and the listing standards of the New York Stock Exchange. The Board of Trustees has adopted a written charter for the Committee, a current copy of which is available at putnam.com/individual. The Committee currently consists of Messrs. Patterson (Chairperson), Darretta, Hill and Leibler and Mses. Baumann and Drucker.

Board Policy and Nominating Committee. The Board Policy and Nominating Committee reviews policy matters pertaining to the operations of the Board of Trustees and its committees, the compensation of the Trustees and their staff, and the conduct of legal affairs for the Putnam funds. The Committee also oversees the voting of proxies associated with portfolio investments of the Putnam funds, with the goal of ensuring that these proxies are voted in the best interest of the fund's shareholders.

The Committee evaluates and recommends all candidates for election as Trustees and recommends the appointment of members and chairs of each Board committee. The Committee also identifies prospective nominees for election as Trustee by considering individuals that come to its attention through the recommendation of current Trustees, Putnam Management or shareholders. Candidates properly submitted by shareholders (as described below) will be considered and evaluated on the same basis as candidates recommended by other sources. The Committee may, but is not required to, engage a third-party professional search firm to assist it in identifying and evaluating potential nominees.

When evaluating a potential candidate for membership on the Board of Trustees, the Committee considers the skills and characteristics that it determines would most benefit the Putnam funds at the time the evaluation is made. The Committee may take into account a wide variety of attributes in considering potential Trustee candidates, including, but not limited to: (i) availability and commitment of a candidate to attend meetings and perform his or her responsibilities to the Board of Trustees, (ii) other board experience, (iii) relevant industry and related experience, (iv) educational background, (v) financial expertise, (vi) an assessment of the candidate's ability, judgment and expertise, (vii) an assessment of the perceived needs of the Board of Trustees and its committees at that point in time and (viii) overall Board of Trustees composition. The Committee generally believes that the Board benefits from diversity of background, experience and views among its members, and considers this as a factor in evaluating the composition of the Board, but has not adopted any specific policy in this regard. In connection with this evaluation, the Committee will determine whether to interview prospective nominees, and, if warranted, one or more members of the Committee, and other Trustees and representatives of the funds, as appropriate, will interview prospective nominees in person or by telephone. Once this evaluation is completed, the Committee recommends such candidates as it determines appropriate to the Independent Trustees for nomination, and the Independent Trustees select the nominees after considering the recommendation of the Committee.

The Committee will consider nominees for Trustee recommended by shareholders of your fund provided shareholders submit their recommendations by the date disclosed in the paragraph entitled "Date for receipt of shareholders' proposals for the next annual meeting" in the section "Further Information About Voting and the Meeting," and provided the shareholders' recommendations otherwise comply with applicable securities laws, including Rule 14a-8 under the Exchange Act.

The Committee consists only of Independent Trustees. The Trustees have adopted a written charter for the Board Policy and Nominating Committee, a current copy of which is available at putnam.com/individual. The Board Policy and Nominating Committee currently consists of Messrs. Hill (Chairperson), Patterson, Putnam and Worley and Ms. Baxter.

Brokerage Committee. The Brokerage Committee reviews the Putnam funds' policies regarding the execution of portfolio trades and Putnam Management's practices and procedures relating to the implementation of those policies. The Committee reviews periodic reports on the cost and quality of execution of portfolio transactions and the extent to which brokerage commissions have been used (i) by Putnam Management to obtain brokerage and research services generally useful to it in managing the portfolios of the funds and of its other clients, and (ii) by the funds to pay for certain fund expenses. The Committee reports to the Trustees and makes recommendations to the Trustees regarding these matters. The Committee currently consists of Dr. Joskow (Chairperson), Ms. Baxter and Messrs. Akhoury, Curtis, Putnam, Stephens and Worley.

Contract Committee. The Contract Committee reviews and evaluates at least annually all arrangements pertaining to (i) the engagement of Putnam Management and its affiliates to provide services to the Putnam funds, (ii) the expenditure of the funds' assets for distribution purposes pursuant to Distribution Plans of the funds, and (iii) the engagement of other persons to provide material services to the funds, including in particular those instances where the cost of services is shared between the funds and Putnam Management and its affiliates or where Putnam Management or its affiliates have a material interest. The Committee also reviews the proposed organization of new fund products, proposed structural changes to existing funds and matters relating to closed-end funds. The Committee reports and makes recommendations to the Trustees regarding these matters. The Committee currently consists of Ms. Baxter (Chairperson), Dr. Joskow and Messrs. Akhoury, Curtis, Putnam, Stephens and Worley.

Distributions Committee. The Distributions Committee oversees all dividends and distributions by the Putnam funds. The Committee makes recommendations to the Trustees of the funds regarding the amount and timing of distributions paid by the funds, and determines such matters when the Trustees are not in session. The Committee also oversees the policies and procedures pursuant to which Putnam Management prepares recommendations for distributions, and meets regularly with representatives of Putnam Management to review the implementation of these

18

policies and procedures. The Committee reports to the Trustees and makes recommendations to the Trustees regarding these matters. The Committee currently consists of Ms. Drucker (Chairperson), Ms. Baumann and Messrs. Darretta, Hill, Leibler and Patterson.

Executive Committee. The functions of the Executive Committee are twofold. The first is to ensure that the Putnam funds' business may be conducted at times when it is not feasible to convene a meeting of the Trustees or for the Trustees to act by written consent. The Committee may exercise any or all of the power and authority of the Trustees when the Trustees are not in session. The second is to establish annual and ongoing goals, objectives and priorities for the Board of Trustees and to ensure coordination of all efforts between the Trustees and Putnam Management on behalf of the shareholders of the funds. The Committee currently consists of Messrs. Hill

Edgar Filing: PUTNAM MANAGED MUNICIPAL INCOME TRUST - Form DEF 14A

(Chairperson), Patterson, Putnam and Worley and Ms. Baxter.

Investment Oversight Committees. The Investment Oversight Committees regularly meet with investment personnel of Putnam Management to review the investment performance and strategies of the Putnam funds in light of their stated investment objectives and policies. The Committees seek to identify any compliance issues that are unique to the applicable categories of funds and work with the appropriate Board committees to ensure that any such issues are properly addressed. Investment Oversight Committee A currently consists of Messrs. Putnam (Chairperson), Akhoury, Darretta, Hill, Patterson and Reynolds and Meses. Baxter and Drucker. Investment Oversight Committee B currently consists of Messrs. Worley (Chairperson), Curtis, Leibler and Stephens, Dr. Joskow, and Ms. Baumann.

Pricing Committee. The Pricing Committee oversees the valuation of assets of the Putnam funds and reviews the funds' policies and procedures for achieving accurate and timely pricing of fund shares. The Committee also oversees implementation of these policies, including fair value determinations of individual securities made by Putnam Management or other designated agents of the funds. The Committee also oversees compliance by money market funds with Rule 2a-7 and the correction of occasional pricing errors. The Committee also reviews matters related to the liquidity of portfolio holdings. The Committee reports to the Trustees and makes recommendations to the Trustees regarding these matters. The Committee currently consists of Messrs. Leibler (Chairperson), Darretta, Hill and Patterson and Meses. Baumann and Drucker.

How large a stake do the Trustees have in the Putnam family of funds?

The Trustees allocate their investments among the Putnam funds based on their own investment needs. The table below shows the number of shares beneficially owned by each nominee for Trustee and the value of each nominee's holdings in the fund and in all of the Putnam funds as of June 30, 2010. As a group, the Trustees owned shares of the Putnam funds valued at approximately \$56 million as of June 30, 2010.

19

Name of Nominee	Dollar Range of Putnam Managed Municipal Income Trust Common Shares Owned	Common Shares of Putnam Managed Municipal Income Trust Beneficially Owned	Aggregate Dollar Range of Shares Held in All of the Putnam Funds Overseen by Trustee
Ravi Akhoury	\$1 - \$10,000	100.000	over \$100,000
Barbara M. Baumann*	N/A	N/A	N/A
Jameson A. Baxter	\$1 - \$10,000	501.180	over \$100,000
Charles B. Curtis	\$1 - \$10,000	271.659	over \$100,000
Robert J. Darretta	\$1 - \$10,000	100.000	over \$100,000
Myra R. Drucker	\$1 - \$10,000	259.017	over \$100,000

Edgar Filing: PUTNAM MANAGED MUNICIPAL INCOME TRUST - Form DEF 14A

John A. Hill	\$1 - \$10,000	301.781	over \$100,000
Paul L. Joskow	\$1 - \$10,000	195.000	over \$100,000
Kenneth R. Leibler	\$1 - \$10,000	195.000	over \$100,000
Robert E. Patterson	\$1 - \$10,000	587.000	over \$100,000
George Putnam, III	\$10,001 - \$50,000	3,815.000	over \$100,000
W. Thomas Stephens	\$1 - \$10,000	100.000	over \$100,000
Richard B. Worley	\$1 - \$10,000	245.928	over \$100,000
Robert L. Reynolds	\$0	0.000	over \$100,000

* Ms. Baumann was elected to the Board of Trustees after June 30, 2010.

As of June 30, 2010, none of the Trustees owned any preferred shares of the fund.

As of June 30, 2010, the Trustees and officers of the fund, as a group, owned less than 1% of the fund's outstanding common shares on that date.

What are some of the ways in which the Trustees represent shareholder interests?

Among other ways, the Trustees seek to represent shareholder interests:

by carefully reviewing your fund's investment performance on an individual basis with your fund's investment personnel;

by discussing with senior management of Putnam Management steps being taken to address any performance deficiencies;

by carefully reviewing the quality of the various other services provided to your fund and its shareholders by Putnam Management and its affiliates;

by reviewing in depth the fees paid by your fund and by negotiating with Putnam Management to ensure that such fees remain reasonable and competitive with those of comparable funds, while at the same time providing Putnam Management sufficient resources to continue to provide high quality services in the future;

by reviewing brokerage costs and fees, allocations among brokers, soft dollar expenditures and similar expenses of your fund;

□ by monitoring potential conflicts of interest between the Putnam funds, including your fund, and Putnam Management and its affiliates to ensure that the funds continue to be managed in the best interests of their shareholders; and

□ by monitoring potential conflicts among funds managed by Putnam Management to ensure that shareholders continue to realize the benefits of participation in a large and diverse family of funds.

How can shareholders communicate with the Trustees?

The Board of Trustees provides a process for shareholders to send communications to the Trustees. Shareholders may direct communications to the Board of Trustees as a whole or to specified individual Trustees by submitting them in writing to the following address:

The Putnam Funds
 Attention: □Board of Trustees□ or any specified Trustee(s)
 One Post Office Square
 Boston, Massachusetts 02109

Written communications must include the shareholder□s name, be signed by the shareholder, refer to the Putnam fund(s) in which the shareholder holds shares and include the class and number of shares held by the shareholder as of a recent date.

Representatives of the fund□s transfer agent will review all communications sent to Trustees and, as deemed appropriate, will provide copies and/or summaries of communications to the Trustees.

How often do the Trustees meet?

The Trustees hold regular meetings nine times each year, usually over a two-day period, to review the operations of the Putnam funds. A portion of these meetings is devoted to meetings of various committees of the Board that focus on particular matters. Each Trustee generally attends at least two formal committee meetings during each regular meeting of the Trustees. In addition, the Trustees meet in small groups with senior investment personnel and portfolio managers to review recent performance and the current investment climate for selected funds. These meetings ensure that each fund□s performance is reviewed in detail at least once a year. The committees of the Board, including the Executive Committee, may also meet on special occasions as the need arises. During calendar year 2009, the average Trustee participated in approximately 62 committee and Board meetings.

The number of times each committee met during your fund□s last fiscal year is shown in the table below:

Fiscal year ended October 31, 2009

Audit and Compliance Committee	11
Board Policy and Nominating Committee	10
Brokerage Committee	7

Communications, Service and Marketing Committee	5
Contract Committee	16
Distributions Committee	11
Executive Committee	1
Investment Oversight Committee A	10
Investment Oversight Committee B	10
Investment Oversight Committee C	10
Investment Oversight Committee D	10
Investment Oversight Committee E*	5
Investment Oversight Coordinating Committee	11
Pricing Committee	10

As of July 1, 2010, the Board's committee structure changed, resulting in the elimination of these committees.

* This committee had been formed in May 2009.

Your fund does not have a policy with respect to Trustee attendance at shareholder meetings. While various Trustees may attend shareholder meetings from time to time, your fund's Trustees did not attend the last annual meeting of your fund. However, they were represented at the meeting by their independent staff and independent counsel.

What are the Trustees paid for their services?

Each Independent Trustee of the fund receives an annual retainer fee and additional fees for each Trustees' meeting attended. Independent Trustees also are reimbursed for costs incurred in connection with their services as Trustees. All of the current Independent Trustees of the fund are Trustees of all the Putnam funds and receive fees for their services.

The Trustees periodically review their fees to ensure that such fees continue to be appropriate in light of their responsibilities as well as in relation to fees paid to trustees of other mutual fund complexes. The Board Policy and Nominating Committee, which consists solely of Independent Trustees of the fund, estimates that committee and Trustee meeting time, together with the appropriate preparation, requires the equivalent of at least three business days per Trustee meeting. The table on page 23 includes the year each Trustee became a Trustee of the Putnam funds, the fees paid to each of those Trustees by your fund for its most recent fiscal year ended October 31, 2009 and the fees paid to each of those Trustees by all of the Putnam funds during calendar year 2009.

Under a Retirement Plan for Trustees of the Putnam funds (the Plan), each Trustee elected before 2004 who retires with at least five years of service as a Trustee of the funds is entitled to receive an annual retirement benefit equal to one-half of the average annual attendance and retainer fees paid to such Trustee for calendar years 2003, 2004 and 2005. This retirement benefit is payable during a Trustee's lifetime, beginning the year following retirement, for the number of years of service through December 31, 2006. A death benefit, also available under the Plan, ensures that the Trustee or his or her beneficiaries will receive benefit payments for the lesser of an aggregate period of (i) ten years or (ii) such Trustee's total years of service.

The Plan Administrator (currently the Board Policy and Nominating Committee) may terminate or amend the Plan at any time, but no termination or amendment will result in a reduction in the amount of benefits (i) currently being paid to a Trustee at the time of such termination or amendment, or (ii) to which a current Trustee would have been entitled had he or she retired immediately prior to such termination or amendment. The Trustees have terminated the Plan with respect to any Trustee first elected to the Board after 2003.

Compensation Table

Trustees/Year	Aggregate compensation from the fund	Pension or retirement benefits accrued as part of fund expenses	Estimated annual benefits from all Putnam funds upon retirement (1)	Total compensation from all Putnam funds (2)
Ravi Akhoury/2009 (3)	\$1,806	\$0	N/A	\$259,167
Barbara M. Baumann/2010 (4)	N/A	N/A	N/A	N/A
Jameson A. Baxter/1994	2,330	340	\$110,500	295,000
Charles B. Curtis/2001	2,240	250	113,900	285,000
Robert J. Darretta/2007	2,287	N/A	N/A	290,000
Myra R. Drucker/2004	2,330	N/A	N/A	295,000
Charles E. Haldeman, Jr./2004 (5)	N/A	N/A	N/A	N/A
John A. Hill/1985 (6)	2,678	567	161,700	374,376
Paul L. Joskow/1997	2,285	223	113,400	295,000
Elizabeth T. Kennan/1992 (7)	2,330	473	108,000	295,000

Edgar Filing: PUTNAM MANAGED MUNICIPAL INCOME TRUST - Form DEF 14A

Kenneth R. Leibler/2006	2,330	N/A	N/A	295,000
Robert E. Patterson/1984	2,330	311	106,500	295,000
George Putnam, III/1984	2,330	268	130,300	295,000
Robert L. Reynolds/2008	N/A	N/A	N/A	N/A
W. Thomas Stephens/1997 (8)	754	420	107,100	139,167
Richard B. Worley/2004	2,330	N/A	N/A	285,000

(1) Estimated benefits for each Trustee are based on Trustee fee rates for calendar years 2003, 2004 and 2005.

(2) As of December 31, 2009, there were 104 funds in the Putnam family.

23

(3) Mr. Akhoury was elected to the Board of Trustees of the Putnam funds effective February 12, 2009.

(4) Ms. Baumann was elected to the Board of Trustees of the Putnam funds effective July 1, 2010.

(5) Mr. Haldeman retired from the Board of Trustees of the Putnam funds effective June 30, 2009.

(6) Includes additional compensation to Mr. Hill for service as Chairman of the Trustees of the Funds.

(7) Dr. Kennan retired from the Board of Trustees of the Putnam funds effective June 30, 2010.

(8) Mr. Stephens, who retired from the Board of Trustees of the Putnam funds on March 31, 2008, rejoined the Board of Trustees on May 14, 2009. Upon his retirement, Mr. Stephens became entitled to receive annual retirement benefit payments from the funds commencing on January 15, 2009. In connection with his rejoining the Board of Trustees, Mr. Stephens agreed to suspend the balance of his retirement benefit payments for the duration of his service as a Trustee.

What is the voting requirement for electing Trustees?

If a quorum is present at the meeting, the two nominees for election as Trustees by the holders of the preferred shares, voting as a single class, who receive the greatest number of votes cast by holders of the preferred shares, voting as a single class, will be elected as Trustees, and the twelve nominees for election as Trustees by the holders of the preferred shares and common shares, voting together as a single class, who receive the greatest number of votes cast by holders of the preferred shares and common shares, voting together as a single class, will be elected as Trustees. Each preferred shareholder and each common shareholder will be entitled to one vote for each share held.

Further Information About Voting and the Meeting

Quorum and Methods of Tabulation. A majority of the shares entitled to vote constitutes a quorum for the transaction of business with respect to any proposal at the meeting, except that, where the preferred shares or common shares shall vote as separate classes, then a majority of the aggregate number of shares of each class shall be necessary to constitute a quorum for the transaction of business by that class. Votes cast by proxy or in person at the meeting will be counted by persons appointed by your fund as tellers for the meeting. The tellers will count the total number of votes cast for approval of a proposal for purposes of determining whether sufficient affirmative votes have been cast. Shares represented by proxies that reflect abstentions and broker non-votes (i.e., shares held by brokers or nominees as to which