Request for redemption from a nonretirement account

Return by mail:

Putnam Investments PO Box 219697 Kansas City, MO 64121-9697

Return by express delivery:

Putnam Investments 801 Pennsylvania Ave Suite 219697 Kansas City, MO 64105-1307

For more information:

Putnam Investments 1-800-225-1581 www.putnam.com



Use this form to request a complete, partial or systematic redemption from your nonretirement account. Redemptions from these accounts may have tax implications and result in additional fees. Consult your financial advisor or tax advisor if you have any questions. For corporations, partnerships, trusts, or other entities where the current authorized signer(s) is/are not named in the account registration, additional documentation may be required. All references herein to the singular (i.e., "I" or "my") include the plural as applicable.

As an alternative to completing this form, redemptions can be requested online at Putnam.com (some restrictions apply).

This form cannot be used to redeem closed-end funds. Please contact your financial advisor for assistance.

Section 1 Account owner information

Name of current owner/custodian/trustee/entity	Social Security/Tax ID number	Date of birth (mm/dd/yyyy)	
Name of current joint owner/minor/co-trustee/authorized party	Social Security/Tax ID number	Date of birth (mm/dd/yyyy)	

Contact phone number

Note: Providing a phone number above will replace the current contact information on file with Putnam (if applicable).

Section 2 Request for one-time redemption

Please indicate the dollar amount, share amount, or percentage allocation to redeem from each applicable account. Please attach a separate sheet of paper to list any additional accounts that are to be redeemed or when utilizing the Specific Lot Identification accounting method, to include the acquisition date(s) and share or dollar amount(s) to satisfy the requested redemption.

Fund number	Account number	Dollar amount	Shares	Percentage	
-		\$	or	or	%
-		\$	or	or	%
-		\$	or	or	%

Section 3 Systematic redemption options

Please indicate your desired systematic redemption frequency and allocation instructions below. Systematic redemptions cannot be requested by a power of attorney and cannot be systematically redeemed into a 529 for America account. Please note that systematic redemptions sent by check will always be sent by standard delivery.

Step 1: Redemption frequency

Please indicate a start month, start year, frequency, and redemption date for your systematic redemptions. If a date falls on a weekend or a holiday, the redemption will be made the next business day.

- If no start month is indicated, redemptions will begin on the next available month.
- If no start year is indicated, redemptions will begin in the current year. If there are no redemptions remaining for the current year, then the program will begin the following year.
- If no frequency is selected, redemptions will take place annually.
- If no distribution date is selected, redemptions will take place on the 15th.
- Any redemptions designated for a date which has already occurred will not be processed until the next redemption date indicated.

Start month	Start year	Frequency (check	Frequency (check one)		Redemption Date (check one			
		Monthly	Semiannually	1st	10th	20th		
		Quarterly	Annually	5th	15th	25th		

Step 2: Redemption allocation(s)

Please indicate the dollar amount or annualized percentage to redeem from each applicable account.

Fund number	Account number	Dollar amount	Shares	Annualized Percentage	
	-	\$	or	or 9⁄	6
	-	\$	or	or 9⁄	6

Section 4 Payment instructions

Select your payment instructions below; if no selection/instructions are provided, payment will be made to the address of record via the U.S. Postal Service (standard delivery). See Section 6 for signature guarantee/medallion guarantee stamp requirements.

Reinvest

Proceeds must be reinvested into the same share class. Unless otherwise indicated on this form, a separate letter of instruction or a new account application, proceeds will also be reinvested into the same fund(s) for non-retirement accounts. Investment options must be provided for proceeds reinvested into 529 for America accounts. Into a new/existing Putnam non-retirement account. Please attach the applicable completed account application when establishing a new account.

Account number (if applicable) Name(s) of the new/registered owner(s), custodian/minor, trust, organization or business entity (required)

Electronically deposit (a signature guarantee/medallion guarantee stamp is required)

Into the bank account indicated on the attached document. A preprinted or web-generated voided check/deposit slip or a signed letter from the bank on bank letterhead must be attached. Each of these documents must include: bank name, name(s) as registered on the bank account, routing number and account number. Brokerage checks and investment company checks cannot be used for bank instructions as these checks do not contain the correct wiring information. Contact your investment company to obtain proper wire instructions on signed letterhead. Starter checks will not be accepted. **Please do not staple**.

Indicate the type of bank account you would like to use: Checking account Savings account

Note: One-time distributions will be sent via Federal bank wire; systematic distributions will be sent via Automated Clearing House (ACH). Putnam does not assess a fee for electronic transactions: however some banks/credit unions may assess a fee upon receipt. Please check with your financial institution for information regarding eligibility, fees, and applicable routing number(s) for Federal bank wire and/or ACH transactions.

Bank ABA routing number Bank account number

Send check

Step 1: Select a delivery method

Mail check(s) via standard delivery (U.S. Postal Service)

Mail check(s) via overnight/express delivery

A \$20 service charge will apply for overnight/express delivery requests. The fee will be taken from the account with the lowest fund number involved in the transaction. For partial redemptions, the service charge will be taken from the remaining balance in the account.

Step 2: Provide payee/address instructions

To the account owner as registered to the address of record

To the alternate payee/alternate address listed below (review **signature guarantee/medallion guarantee stamp** requirements): *Alternate payee*

Alternate mailing address (street, city, state, ZIP code)

Section 5 Verification of new taxable party

Complete this section when the redemption will be reported under a different social security or taxpayer identification number than that of the primary account owner (if this section is left blank, then the redemption will be reported under the primary tax identification number on the account being redeemed). For UGMA/ UTMA registrations, any new contact information provided in this section will be applied to the existing UGMA/UTMA registration as there is no change to the taxable party. When completing this section for a new taxable party, the amount indicated in Section 2 of this form will be transferred to a new account prior the redemption. See Section 6 for signature guarantee/medallion guarantee stamp requirements.

Important: The authorized signer for the new taxable party must also complete Section 6. Information provided in this section will only be applied to the new taxable party. Please contact Putnam to update information for the primary account owner named in Section 1.

Name of new taxable party (individual, trust or entity)		Tax identification number	Date of l	birth/trust
Name of trustee or authorized signer First MI Last	Suffix	Social Security number	Date of I	birth (mm/dd/yyyy)
Name of co-trustee or co-authorized signer First MI Last	Suffix	Social Security number	Date of I	birth (mm/dd/yyyy)
New owner's residential address (cannot be a P.O. Box or c/o address) Street	City		State	ZIP code
Mailing address for new account (if different from residential address)	City		State	ZIP code

Contact phone number

E-mail address

Note: Providing a phone number or e-mail address above will replace the current contact information on file with Putnam (if applicable). If you are enrolled in electronic delivery, all notifications will be sent to the e-mail address listed above.

Select the appropriate coding reason to transfer the shares from the primary account owner named in Section 1 into the name of the new taxable party named above to ensure accurate cost basis reporting.

Re-registration: Cost basis will not be adjusted. Re-registration transactions include removal of a deceased joint owner or a spousal transfer.

Inheritance: Select this option if you have inherited shares from the primary account owner named in Section 1. You must provide the date of death below. If no date of death is provided, your cost basis may not be accurately tracked.

Date of death (mm/dd/yyyy; required)

For trusts and joint accounts, Putnam will default to coding transfers due to death as a re-registration unless directed to adjust the cost basis using an inheritance coding for a specific percentage of the transferred shares below (1%-100%). Please consult your tax advisor to determine if you qualify for this option.

Adjust my cost basis using an inheritance coding for verified with a tax advisor that I am eligible to adjust my cost basis.
6 of the assets transferred from the joint or trust account(s) indicated in Section 2. I have basis.

For all other non-retirement registrations, Putnam will use a transfer coding of inheritance and adjust your cost basis to the fair market value on the date of death unless you provide an alternate valuation date below.

• Alternate valuation date: This option is only available for estate assets. Federal estate tax law allows estate assets to be valued on an alternate date rather than the date of death. Please consult your tax advisor to determine the appropriate date to provide if you qualify for this option.

Alternate date (mm/dd/yyyy; optional)

Section 6 Authorization

In accordance with federal law, the Putnam funds are required to obtain the name, residential or business address, social security or tax identification number, and date of birth for each registered owner in order to verify their identities. For certain entities such as trusts, estates, corporations, partnerships, or other organizations, additional documentation may be required (contact Putnam at 1-800-225-1581 for additional information).

Under penalties of perjury, I certify with my signature below that: (1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me) and (2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and (3) I am a U.S. citizen, a U.S. resident alien, or other U.S. person as defined in the instructions issued by the IRS. You must cross out item (2) above if you have been notified by the IRS that you are currently subject to backup withholding because of underreporting interest or dividends on your tax return.

Putnam requires the signature guarantee/medallion guarantee stamp for any of the scenarios listed below:

• Distribution is sent electronically to a bank account

Distribution amount is more than \$250,000

- Check is not payable solely to the registered account owner
- Distribution amount exceeds \$25,000 and the check is mailed to an address not on file with Putnam or to an address that has been added or changed in the past 15 days
- Request is signed by anyone other than the registered account owner (must be signed in capacity and accompanied by the appropriate certified legal document(s) with original certification; a certification older than **120 days** is not valid; some distribution restrictions may apply)
- Distribution is reinvested in an account that is not registered solely in the owner's name

A signature guarantee/medallion guarantee is a stamped assurance by a financial institution that indicates a signature is valid and has the financial backing of the institution.

With this application, I authorize the bank/credit union to accept credit entries initiated by Putnam Investor Services, Inc. to the account designated in Section 4, and to credit the same account, without responsibility for correctness thereof or for the existence of any further authorization relating thereto. I agree to indemnify and hold harmless my bank/credit union, the Putnam funds, and Putnam Investor Services, Inc. for any loss, liability or expense incurred from acting on these instructions. I also agree to waive any right under the NACHA rules to rescind any instruction for ACH transactions which have already occurred at the time of the attempt to rescind. This waiver of the rescission right applies to both ACH investments in and ACH redemptions from the Putnam funds. This authorization may be terminated by me at any time by written notification to Putnam Investor Services, Inc., with reasonable time given to implement my/our request.

I request the redemption indicated above. Putnam Investor Services, Inc. is entitled to rely on this form and is released from any and all claims I/we may have or hereafter claim to have with respect to the redemption.

My signature below also indicates that if I am designating an investment in a fund that I do not already own I have read the fund prospectus(es) and agree to the terms therein.

Signature of owner/custodian/trustee/authorized party

Signature of joint owner/co-trustee/authorized party

Print name of signer

Current date (mm/dd/yyyy)

Print name of signer

Current date (mm/dd/yyyy)

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PLACE SIGNATURE/MEDALLION GUARANTEE STAMP BELO	VV
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PLACE SIGNATURE/MEDALLION GUARANTEE STAMP BELOW THE GUARANTEE SHOULD NOT BE DATED

