From: Robert Laska [mailto:robert_laska@update.putnam.com]

Sent: Friday, February 02, 2018 1:05 PM

To: fundrelations

Subject: Business Update from Putnam Investments - Revised - Putnam Investments Announces Fund

Mergers

Putnam Investments Business Update

Helping home offices manage their information systems

At Putnam, we are aware of the challenges home offices face in keeping information systems up to date, and we're committed to serving your needs. To help you maintain your systems, we provide Business Updates that contain details about the latest changes to our products, policies, and procedures.

Read the latest Revised <u>Business Update</u> regarding fund mergers. Please see the table cell highlighted in yellow for updated language.

Visit our <u>archive</u> of past Business Updates.

Please contact your dedicated Putnam representative with questions. If you reply to this email, please use the domain @putnam.com rather than @update.putnam.com.

Past performance is not a guarantee of future results.

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