

SECURITIES AND EXCHANGE COMMISSION

FORM 24F-2NT

Registration of securities by certain investment companies. Declaration of election Rule 24f-2 notice.

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FILER

MFS SERIES TRUST XV

CIK: **764719** | IRS No.: **000000000** | State of Incorp.: **MA** | Fiscal Year End: **1031**
Type: **24F-2NT** | Act: **33** | File No.: **002-96738** | Film No.: **13550619**

Mailing Address

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OMB APPROVAL	
OMB Number:	3235-0456
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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

FORM 24F-2

**Annual Notice of Securities Sold
Pursuant to Rule 24f-2**

Read instructions at end of Form before preparing Form. Please print or type.

1.	Name and address of issuer: MFS Series Trust XV 111 Huntington Avenue Boston, MA 02199
2.	The name of each series or class of securities for which this Form is filed (if the Form is being filed for all series and classes of securities of the issuer, check the box but do not list series or classes): <input type="checkbox"/> MFS Diversified Target Return Fund
3.	Investment Company Act File Number: 811-4253 Securities Act File Number: 2-96738
4(a).	Last day of fiscal year for which this Form is filed: October 31, 2012
4(b).	<input type="checkbox"/> Check box if this Form is being filed late (i.e., more than 90 calendar days after the end of the issuer's fiscal year). (See Instruction A.2) <i>Note: If the Form is being filed late, interest must be paid on the registration fee due.</i>
4(c).	<input type="checkbox"/> Check box if this is the last time the issuer will be filing this Form.

5. Calculation of registration fee:	
(i) Aggregate sale price of securities sold during the fiscal year pursuant to section 24(f):	\$ 47,205,549
(ii) Aggregate price of securities redeemed or repurchased during the fiscal year:	<u>\$ 29,799,831</u>
(iii) Aggregate price of securities redeemed or repurchased during any prior fiscal year ending no earlier than October 11, 1995 that were not previously used to reduce registration fees payable to the Commission:	<u>\$130,535,359</u>
(iv) Total available redemption credits [add Items 5(ii) and 5(iii)]:	<u>\$ 160,335,190</u>
(v) Net sales—if item 5(i) is greater than item 5(iv) [subtract Item 5(iv) from Item 5(i)]:	<u>\$ -</u>
(vi) Redemption credits available for use in future years—if Item 5(i) is less than Item 5(iv) [subtract Item 5(iv) from Item 5(i)]:	<u>\$113,129,641</u>
(vii) Multiplier for determining registration fee (See Instruction C.9):	× <u>0.0001364</u>
(viii) Registration fee due [multiply Item 5(v) by Item 5(vii)] (enter “0” if no fee is due):	= <u>\$ -</u>
6. Prepaid Shares	
<p>If the response to item 5(i) was determined by deducting an amount of securities that were registered under the Securities Act of 1933 pursuant to rule 24e-2 as in effect before [effective date of rescission of rule 24e-2], then report the amount of securities (number of shares or other units) deducted here: N/A. If there is a number of shares or other units that were registered pursuant to rule 24e-2 remaining unsold at the end of the fiscal year for which this form is filed that are available for use by the issuer in future fiscal years, then state that number here: N/A</p>	
7. Interest due—if this Form is being filed more than 90 days after the end of the issuer’s fiscal year (see Instruction D):	
	+ \$ -
8. Total of the amount of the registration fee due plus any interest due [line 5(viii) plus line 7]:	
	= <u>\$ -</u>
9. Date the registration fee and any interest payment was sent to the Commission’s lockbox depository:	
<p>Method of Delivery:</p> <p style="text-align: center;"> <input type="checkbox"/> Wire Transfer Reference Number _____ <input type="checkbox"/> Mail or other means </p>	

SIGNATURES

This report has been signed below by the following person on behalf of the issuer and in the capacity and on the date indicated.

By (Signature and Title)* **DAVID L. DILORENZO** _____

David L. DiLorenzo

Treasurer

Date: **January 25, 2013**

* Please print the name and title of the signing officer below the signature.