BlackRock Multi-Sector Income Trust Form 8-A12B February 20, 2013

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES

PURSUANT TO SECTION 12(b) OR 12(g) OF THE

SECURITIES EXCHANGE ACT OF 1934

BLACKROCK MULTI-SECTOR INCOME TRUST

(Exact Name of Registrant as Specified in its Charter)

Delaware (State of Incorporation

or Organization)

100 Bellevue Parkway Wilmington, Delaware (Address of Principal Executive Offices) 46-1559941 (I.R.S. Employer

Identification Number)

19809 (Zip Code)

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If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), please check the following box. x

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), please check the following box.

Securities Act registration statement file number to which this form relates: 333-185205

Securities to be registered pursuant to Section 12(b) of the Act:

Title of Each Class

Name of Each Exchange on Which

to be so Registered Each Class is to be Registered Common Shares of Beneficial Interest New York Stock Exchange Securities to be registered pursuant to Section 12(g) of the Act: None INFORMATION REQUIRED IN REGISTRATION STATEMENT

Item 1. Description of Registrant s Securities to be Registered.

The description of the Registrant s securities to be registered is incorporated by reference to the description contained under the caption Description of Shares in the Registrant s Registration Statement on Form N-2 (Nos. 333-185205 and 811-22774) as filed electronically with the Securities and Exchange Commission (the Commission) on November 30, 2012 (Accession No. 0001341004-12-001403) (Registration Statement on Form N-2), as amended by Pre-Effective Amendment No. 1 to the Registration Statement on Form N-2, as filed with the Commission on January 9, 2013 (Accession No. 0001341004-13-000047), Pre-Effective Amendment No. 2 to the Registration Statement on Form N-2, as filed with the Commission on January 15, 2013 (Accession No. 0001193125-13-012322) and Pre-Effective Amendment No. 3 to the Registration Statement on Form N-2, as filed with the Commission on January 24, 2013 (Accession No. 0001193125-13-022143).

Item 2. Exhibits.

Pursuant to the Instructions as to Exhibits, no exhibits are filed herewith or incorporated by reference.

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SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

BLACKROCK MULTI-SECTOR INCOME TRUST

By: /s/ John Perlowski Name: John Perlowski Title: President

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