

CoreSite Realty Corp  
Form 8-A12B  
December 11, 2012

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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**FORM 8-A**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR (g) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

**CoreSite Realty Corporation**

(Exact name of registrant as specified in its charter)

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**Maryland**  
(State or incorporation or organization)

**27-1925611**  
(IRS Employer Identification No.)

**1050 17th Street, Suite 800**  
**Denver, CO**  
(Address of Principal Executive Offices)

**80265**  
(Zip Code)

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

Name of each exchange on which

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**Title of each class  
to be so registered**  
7.25% Series A Cumulative Redeemable Preferred

**each class is to be registered**  
The New York Stock Exchange

Stock, par value \$0.01 per share

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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), 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), check the following box.  o

Securities Act registration statement file number to which this form relates: 333-174020.

Securities to be registered pursuant to Section 12(g) of the Act: None.

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**INFORMATION REQUIRED IN REGISTRATION STATEMENT**

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

CoreSite Realty Corporation (the *Company*) hereby incorporates by reference herein the description of its 7.25% Series A Cumulative Redeemable Preferred Stock, par value \$0.01 per share (the *Series A Preferred Stock*), to be registered hereunder, set forth under the heading "Description of Series A Preferred Stock" in the Company's prospectus supplement, dated December 5, 2012, to the prospectus, dated October 20, 2011 (the *Prospectus*), constituting part of the Registration Statement on Form S-3 (File No. 333-177053) of the Company, filed with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the *Securities Act*), the related information under the heading "Description of Preferred Stock" in the Prospectus, and any description included in a form of prospectus supplement subsequently filed by the Company under Rule 424(b) under the Securities Act. The Series A Preferred Stock is expected to be listed on the New York Stock Exchange.

**Item 2. Exhibits.**

The documents listed below are filed as exhibits to this registration statement:

| <b>Exhibit Number</b> | <b>Description</b>   |
|-----------------------|--|
| 3.1                   | Articles of Amendment and Restatement of CoreSite Realty Corporation incorporated by reference to our Registration Statement (Amendment No. 7) on Form S-11 (Registration No. 333-166810) filed on September 22, 2010. |
| 3.2*                  | Form of Articles Supplementary designating CoreSite Realty Corporation's 7.25% Series A Cumulative Redeemable Preferred Stock.   |
| 3.3                   | Amended and Restated Bylaws of CoreSite Realty Corporation incorporated by reference to our Registration Statement (Amendment No. 7) on Form S-11 (Registration No. 333-166810) filed on September 22, 2010.           |
| 4.1*                  | Form of Specimen Certificate for CoreSite Realty Corporation's 7.25% Series A Cumulative Redeemable Preferred Stock.   |

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\* Filed herewith.

**SIGNATURES**

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

Date: December 11, 2012

**CoreSite Realty Corporation**

|        |                         |
|--------|-------------------------|
| By:    | /s/ Jeffrey S. Finnin   |
| Name:  | Jeffrey S. Finnin       |
| Title: | Chief Financial Officer |

**EXHIBIT INDEX**

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