

Digital Realty Trust, Inc.
Form 8-A12B
March 30, 2012

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-A

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

DIGITAL REALTY TRUST, INC.

(Exact name of registrant as specified in its charter)

Maryland
(State of incorporation

or organization)

560 Mission Street, Suite 2900

26-0081711
(I.R.S. Employer

Identification No.)

94105

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San Francisco, California
(Address of principal executive offices)

(Zip Code)

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

| Title of each class to be so registered | Name of each exchange on which each class is to be registered |
|--|--|
| 6.625% Series F Cumulative Redeemable Preferred Stock, par value \$0.01 per share | The New York Stock Exchange |

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.

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.

Securities Act registration statement file number to which this form relates: 333-158958 and 333-158958-01.

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.

Digital Realty Trust, Inc. (the *Company*) hereby incorporates by reference herein the description of its 6.625% Series F Cumulative Redeemable Preferred Stock, par value \$0.01 per share (the *Series F Preferred Stock*), to be registered hereunder, set forth under the heading "Description of Series F Preferred Stock" in the Company's prospectus supplement, dated March 29, 2012, to the prospectus, dated November 15, 2010 (the *Prospectus*), constituting part of the Registration Statement on Form S-3 (File Nos. 333-158958 and 333-158958-01) of the Company and Digital Realty Trust, L.P., 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 F 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:

| Exhibit Number | Description |
|-----------------------|--|
| 3.1 | Articles of Amendment and Restatement of Digital Realty Trust, Inc., as amended (incorporated by reference to Exhibit 3.1 to the Combined Quarterly Report on Form 10-Q of Digital Realty Trust, Inc. and Digital Realty Trust, L.P. filed on November 7, 2011). |
| 3.2* | Form of Articles Supplementary designating Digital Realty Trust, Inc.'s 6.625% Series F Cumulative Redeemable Preferred Stock. |
| 3.3 | Fourth Amended and Restated Bylaws of Digital Realty Trust, Inc. (incorporated by reference to Exhibit 3.1 to Digital Realty Trust, Inc.'s Current Report on Form 8-K filed on February 21, 2012). |
| 4.1* | Form of Specimen Certificate for Digital Realty Trust, Inc.'s 6.625% Series F Cumulative Redeemable Preferred Stock. |

* Filed herewith.

SIGNATURE

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: March 30, 2012

Digital Realty Trust, Inc.

By: /s/ Joshua A. Mills
Joshua A. Mills

Senior Vice President, General Counsel and

Assistant Secretary

EXHIBIT INDEX

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