

Peterson Scott E
 Form 5
 February 14, 2011

FORM 5

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

OMB APPROVAL
 OMB Number: 3235-0362
 Expires: January 31, 2005
 Estimated average burden hours per response... 1.0

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *
Peterson Scott E
 (Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol
Digital Realty Trust, Inc. [DLR]
 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
12/31/2010

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)
 Director 10% Owner
 Officer (give title below) Other (specify below)
Senior VP, Acquisitions

560 MISSION STREET, SUITE 2900
 (Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Reporting
 (check applicable line)

SAN FRANCISCO, CA 94105
 (City) (State) (Zip)

Form Filed by One Reporting Person
 Form Filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or (D) Price | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|--|
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|--|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|

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| | Derivative Security | | | | or Disposed of (D) | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
|---|---------------------|------------|---|---|--------------------|-------|------------------|------------------|--------------|----------------------------|
| | | | | | (A) | (D) | | | | |
| Long-Term Incentive Units ⁽¹⁾ | Ã | 09/02/2010 | Ã | G | Ã | 1,355 | Ã ⁽¹⁾ | Ã ⁽³⁾ | Common Stock | 1,355 |
| Class C Profits Interest Units ⁽⁴⁾ | Ã | 09/02/2010 | Ã | G | Ã | 2,353 | Ã ⁽⁴⁾ | Ã ⁽³⁾ | Common Stock | 2,353 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-------------------------|
| | Director | 10% Owner | Officer | Other |
| Peterson Scott E 560 MISSION STREET, SUITE 2900 SAN FRANCISCO, CA 94105 | Ã | Ã | Ã | Senior VP, Acquisitions |

Signatures

/s/ Barbara Polster,
attorney-in-fact

02/14/2011

 Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
 - ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- Long-term incentive units are membership interests in Digital Realty Trust, L.P., a Maryland limited partnership of which the issuer is the general partner (the "Operating Partnership"). Long-term incentive units receive the same quarterly distributions as common limited partnership units of the Operating Partnership ("Common Units"). Long-term incentive units may initially not have full parity with Common Units with respect to liquidating distributions; however, upon the occurrence of specified events, long-term incentive units may achieve full parity with Common Units for all purposes, and thereafter vested long-term incentive units may be converted into an equal number of Common Units on a one-for-one basis at any time. Common Units will be redeemable for cash based on the fair market value of an equivalent number of shares of the issuer's common stock, or, at the election of the issuer, for an equal number of shares of the issuer's common stock.
- (1)
 - (2) 1 for 1.
 - (3) N/A
 - (4) Class C Profits Interest Units ("Class C Units") are membership interests in the Operating Partnership. Class C Units that have satisfied the performance condition and achieved full parity with Common Units receive the same quarterly distributions as Common Units, and may be converted into an equal number of Common Units on a one-for-one basis at any time. Common Units will be redeemable for cash based on the fair market value of an equivalent number of shares of the issuer's common stock, or, at the election of the issuer, for an equal number of shares of the issuer's common stock. The Class C Units have achieved full parity with Common Units.

^

Remarks:

This statement of changes in beneficial ownership ("Form 5") of securities of Digital Realty Trust, ^

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure.

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