Peterson Scott E Form 4/A February 26, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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obligations

may continue.

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

See Instruction 1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * Peterson Scott E

2. Issuer Name and Ticker or Trading Symbol

3. Date of Earliest Transaction

5. Relationship of Reporting Person(s) to Issuer

Digital Realty Trust, Inc. [DLR]

(Check all applicable)

(First) 560 MISSION STREET, SUITE

(Month/Day/Year) 02/25/2008

(Middle)

Director 10% Owner X_ Officer (give title Other (specify below) below)

2900

Senior VP, Acquisitions 6. Individual or Joint/Group Filing(Check

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

Applicable Line)

02/27/2008

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

SAN FRANCISCO, CA 94105

(City) (State) (Zip)

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

1. Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

Code V Amount (D) Price

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (I) Ownership (Instr. 4) (Instr. 4)

(A)

Reported Transaction(s)

(Instr. 3 and 4)

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

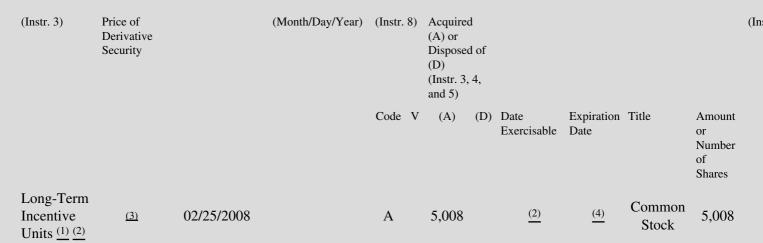
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SEC 1474 (9-02)

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

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

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Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Peterson Scott E 560 MISSION STREET, SUITE 2900

SAN FRANCISCO, CA 94105

Senior VP, Acquisitions

Signatures

Barbara Polster, attorney-in-fact 02/26/2009

**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

- (1) 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.
 - Reflects long-term incentive units initially granted on February 25, 2008 that were subject to a performance-based vesting condition, which performance-based vesting condition was satisfied in full on February 24, 2009. These long-term incentive units are also subject to time-based vesting, pursuant to which 20% of the units will vest on March 2, 2009, 20% will vest on February 25, 2010, 30% will vest on February 25, 2011 and 30% will vest on February 25, 2012.
- (3) 1 for 1.
- (4) N/A

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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