Peterson Scott E Form 4 September 17, 2012

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

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Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction 1(b).

(Print or Type Responses)

5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Peterson Scott E Issuer Symbol Digital Realty Trust, Inc. [DLR] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify 560 MISSION STREET, SUITE 09/13/2012 below) below) 2900 Senior VP, Acquisitions

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

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

SAN FRANCISCO, CA 94105

1. Name and Address of Reporting Person *

(City)	(State)	(Zip) Tab	le I - Non-D	Derivative S	Securi	ities Acqu	iired, Disposed of	, or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction(A) or Code (Instr. (Instr. 8)		(A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	09/13/2012		Code V M(1)	Amount 20,000	(D)	Price (2)	20,000	D	
Common Stock	09/13/2012		S	20,000	D	\$ 73.58 (3)	0	D	
Common Stock	09/13/2012		M	3,401	A	\$ 41.73	3,401	D	
Common Stock	09/13/2012		S	3,401	D	\$ 73.58 (4)	0	D	

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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 Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date 3A. Deemed (Month/Day/Year) Execution Data any (Month/Day/Y		4. Transaction Code (Instr. 8)	5. Number of on Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou Underlying Securi (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amo or Num of S
Long-Term Incentive Units (2)	<u>(5)</u>	09/13/2012		M <u>(1)</u>	20,000	<u>(2)</u>	<u>(6)</u>	Common Stock	20,
Employee Stock Option (right to buy)	\$ 41.73	09/13/2012		M	3,401	05/02/2008(7)	05/02/2017	Common Stock	3,4

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

/s/ Barbara Polster, attorney-in-fact

09/17/2012

**Signature of Reporting Person

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).
- (1) The reporting person converted long-term incentive units into common limited partnership units ("Common Units") of Digital Realty Trust, L.P., a Maryland limited partnership (the "Operating Partnership"), and subsequently redeemed the Common Units for shares of the common stock of Digital Realty Trust, Inc., a Maryland corporation (the "Issuer"), all in accordance with the requirements of the

Reporting Owners 2

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Limited Partnership Agreement of the Operating Partnership.

Long-term incentive units are profits interest units in the Operating Partnership. Vested profits interest units may be converted into an equal number of Common Units in the Operating Partnership on a one-for-one basis at any time. Common Units are 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, subject to adjustment in the event of stock splits, stock dividends, issuance of stock rights, specified extraordinary distributions or similar events.

- (3) Represents the average sale price. Exact sale prices range from \$73.25 to \$74.00.
- (4) Represents the average sale price. Exact sale prices range from \$73.25 to \$73.97
- (**5**) 1 for 1.
- (6) N/A

(2)

(7) The option vested as to 20% on 05/02/2008 and thereafter vested 1-2/3% monthly. The option became fully vested on 5/2/2012.

Remarks:

This statement of changes in beneficial ownership ("Form 4") of securities of Digital Realty Trust, Inc., a Maryland corporation 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.