Smith James M. Form 4 March 01, 2012

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005
Estimated average burden hours per

Section 16. Form 4 or Form 5 obligations may continue. See Instruction

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

response... 0.5

1(b).

(Print or Type Responses)

| 1. Name and Address Smith James M. | of Reporting Person * | 2. Issuer Name and Ticker or Trading Symbol Digital Realty Trust, Inc. [DLR] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | |
|------------------------------------|-----------------------|---|--|--|--|--|
| (Last) (F | First) (Middle) | 3. Date of Earliest Transaction | | | | |
| 560 MISSION STREET, SUITE 2900 | | (Month/Day/Year) 02/28/2012 | Director 10% Owner _X Officer (give title Other (specify below) Chief Technology Officer | | | |
| (Street) | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Chec | | | |
| SAN FRANCISC | O, CA 94105 | Filed(Month/Day/Year) | Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| (City) | (State) (| Zip) Table | I - Non-D | erivative s | Secur | ities Acqu | uired, Disposed of | , or Beneficiall | y Owned | |
|------------------------|--------------------------------------|----------------------------------|-------------------|-------------|-----------|--------------|---------------------------------------|--------------------------------------|---------------------------------------|--|
| 1.Title of Security | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if | 3. Transaction | ` ′ | spose | d of (D) | 5. Amount of Securities | 6. Ownership Form: Direct | Indirect | |
| (Instr. 3) | | any (Month/Day/Year) | Code (Instr. 8) | (Instr. 3, | 4 and (A) | 5) | Beneficially Owned Following Reported | (D) or Indirect (I) (Instr. 4) | Beneficial Ownership (Instr. 4) | |
| | | | Code V | Amount | or (D) | Price \$ | Transaction(s) (Instr. 3 and 4) | | | |
| Common Stock | 02/28/2012 | | S | 882 | D | 70.85 (1) | 16,615 | D | | |
| Common Stock | 03/01/2012 | | S | 441 | D | \$ 72.82 | 16,174 | D | | |

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

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SEC 1474

(9-02)

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

| 1. Title of | 2. | 3. Transaction Date | | 4. | 5. | 6. Date Exerc | | 7. Title | | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|---------------|------------|-----------|----------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transacti | orNumber | Expiration D | ate | Amou | nt of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security | Secur |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securi | ties | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. | 3 and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | or | | |
| | | | | | | Exercisable | * | Title Num | Number | | |
| | | | | | | Excicisable | Date | | of | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer Other Director 10% Owner

Smith James M. Chief 560 MISSION STREET, SUITE 2900 Technology SAN FRANCISCO, CA 94105 Officer

Signatures

Barbara Polster, 03/01/2012 attorney-in-fact

**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).
- (1) This is an average price; actual prices ranged from \$70.75 to \$70.98.

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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