

Goepfrich Peter J
 Form 4
 March 22, 2010

FORM 4

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

OMB APPROVAL

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Goepfrich Peter J

2. Issuer Name and Ticker or Trading Symbol
 VITAL IMAGES INC [VTAL]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 5850 OPUS PARKWAY, SUITE 300
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 03/19/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 CFO

MINNETONKA, MN 55343-4414
 (City) (State) (Zip)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 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) | 5. Amount of Securities Beneficially Owned Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | | (A) or (D) | Code V Amount (D) Price | | |

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

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| (Instr. 3) | Price of Derivative Security | (Month/Day/Year) | (Instr. 8) | Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
|--------------------------------------|------------------------------|------------------|------------|--|------|---|-----|-----|------------------|-----------------|--------------|----------------------------|
| Employee Stock Option (right to buy) | \$ 32.14 | 03/19/2010 | | 25,000 (3) | H | | | | (1) | 03/09/2011 | Common Stock | 25,000 |
| Employee Stock Option (right to buy) | \$ 32.64 | 03/19/2010 | | 8,000 (3) | H | | | | (1) | 02/02/2012 | Common Stock | 8,000 |
| Employee Stock Option (right to buy) | \$ 31.38 | 03/19/2010 | | 6,000 (3) | H | | | | (1) | 03/02/2012 | Common Stock | 6,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Goepfrich Peter J 5850 OPUS PARKWAY SUITE 300 MINNETONKA, MN 55343-4414 | | | CFO | |

Signatures

Peter J
Goepfrich
03/19/2010

**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) The total of the NQ grant was to vest 28% one year after the date of the grant and 2% per month thereafter, until fully vested.
- (2) Mr. Goepfrich has other options remaining totaling 122,070 at various prices and exercise dates.
- (3) This stock option was tendered as part of Vital Images, Inc.'s cash tender offer for certain employee stock options, conducted pursuant to a Schedule TO filed with the SEC on February 22, 2010, as amended.

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

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