ION GEOPHYSICAL CORP

Form 4 March 12, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL

OMB Number: 3235-0287

Expires: January 31, 2005

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Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

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

may continue.

See Instruction

30(h) of the Investment Company Act of 1940

(Zip)

1(b).

(City)

(State)

(Print or Type Responses)

| 1. Name and Address of Reporting Person MARSH G THOMAS | 2. Issuer Name and Ticker or Trading Symbol ION GEOPHYSICAL CORP [IO] | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|---|--|--|--|--|
| (Last) (First) (Middle) | 3. Date of Earliest Transaction | (Check all applicable) | | | |
| | (Month/Day/Year) | X Director 10% Owner | | | |
| 2105 CITYWEST BLVD., SUITE 400 | 03/10/2009 | Officer (give title Other (specify below) | | | |
| (Street) | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |
| HOUSTON, TX 77042-2839 | Filed(Month/Day/Year) | Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| | | | | | | | | , | • |
|------------------------|--------------------------------------|-------------------------------|------------------|------------|-----------|--------------|-------------------------|-----------------|-----------------------|
| 1.Title of Security | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if | 3. Transactio | 4. Securit | | equired (A) | 5. Amount of Securities | 6. Ownership | 7. Nature of Indirect |
| (Instr. 3) | | any | Code | (Instr. 3, | 4 and 5 | 5) | Beneficially | Form: | Beneficial |
| | | (Month/Day/Year) | (Instr. 8) | | | | Owned | Direct (D) | Ownership |
| | | | | | | | Following | or Indirect | (Instr. 4) |
| | | | | | (4) | | Reported | (I) | |
| | | | | | (A) | | Transaction(s) | (Instr. 4) | |
| | | | Code V | Amount | or (D) | Price | (Instr. 3 and 4) | | |
| Common stock | 03/10/2009 | | P | 1,000 | A | \$ 1.2996 | 21,000 | D | |
| Common stock | 03/12/2009 | | P | 49,000 | A | \$ 1.3454 | 70,000 | 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)

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

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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 Exer | | 7. Title a | | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|--------------|------------|------------|--------|-------------|---------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | | onNumber | Expiration D | | Amount | | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underly | _ | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securitie | es | (Instr. 5) | Bene |
| | Derivative | | | | Securities | S | | (Instr. 3 | and 4) | | Own |
| | Security | | | | Acquired | | | | | | Follo |
| | , | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | (IIISti |
| | | | | | 4, and 5) | | | | | | |
| | | | | | 4, and 3) | | | | | | |
| | | | | | | | | A | mount | | |
| | | | | | | D. | E | 01 | r | | |
| | | | | | | Date | Expiration | Title N | umber | | |
| | | | | | | Exercisable | Date | 01 | | | |
| | | | | Code V | (A) (D) | | | | hares | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|--|---------------|-----------|---------|-------|--|--|--|
| • | Director | 10% Owner | Officer | Other | | | |
| MARSH G THOMAS 2105 CITYWEST BLVD. SUITE 400 HOUSTON, TX 77042-2839 | X | | | | | | |

Signatures

/s/ Debra A. Addington, attorney-in-fact 03/12/2009

**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).

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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