

ION GEOPHYSICAL CORP  
Form 4  
February 23, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

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 \*  
**ROLAND DAVID L**

(Last) (First) (Middle)  
  
2105 CITYWEST  
BOULEVARD, SUITE 400  
  
(Street)

HOUSTON, TX 77042-2839

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**ION GEOPHYSICAL CORP [IO]**

3. Date of Earliest Transaction  
(Month/Day/Year)  
**02/22/2011**

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
**SVP-Gen Counsel & Corp Sec'y**

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 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)
			Code	V Amount (A) or (D) Price			
Common stock	02/22/2011		M	15,000 A \$ 9.84	93,140 <sup>(1)</sup>	D	
Common stock	02/22/2011		M	25,000 A \$ 7.31	118,140	D	
Common stock	02/22/2011		S	40,000 D \$ 12.3056	78,140	D	

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**

SEC 1474 (9-02)

number.

**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 (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of 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 Amount of Underlying Security (Instr. 3 and 4)	Amount or Number of Shares
Employee Stock Option (right-to-buy)	\$ 9.84	02/22/2011		M	15,000	<u>(2)</u> 09/01/2014	Common stock	15,000
Employee Stock Option (right-to-buy)	\$ 7.31	02/22/2011		M	25,000	<u>(3)</u> 08/01/2015	Common stock	25,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
ROLAND DAVID L 2105 CITYWEST BOULEVARD SUITE 400 HOUSTON, TX 77042-2839			SVP-Gen Counsel & Corp Sec'y	

## Signatures

/s/ Debra A. Addington,  
attorney-in-fact

02/23/2011

\_\_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) Includes 500 shares acquired under the ION Employee Stock Purchase Plan.
- (2) The option vested in four equal installments on September 1, 2005, 2006, 2007 and 2008.
- (3) The option vested in four equal installments on August 2, 2006, 2007, 2008 and 2009.

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.