LAPEYRE JAMES M JR

Form 5

January 24, 2013

FORM 5

OMB APPROVAL

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

Number: Expires:

OMB

3235-0362 January 31,

no longer subject to Section 16. Form 4 or Form

Check this box if

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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response...

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1.0

2005

5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer LAPEYRE JAMES M JR Symbol ION GEOPHYSICAL CORP [IO] (Check all applicable) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (Month/Day/Year) _X_ Director 10% Owner Officer (give title Other (specify 12/31/2012 below) below) 2105 CITYWEST **BOULEVARD. SUITE 400** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year)

HOUSTON, TXÂ 77042-2839

X Form Filed by One Reporting Person Form Filed by More than One Reporting

(check applicable line)

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. 7. Nature of Transaction Indirect Security (Month/Day/Year) Execution Date, if (A) or Disposed of (D) Securities Ownership (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned at end Direct (D) Ownership of Issuer's or Indirect (Instr. 4) Fiscal Year (I) (A) (Instr. 3 and (Instr. 4) or 4) Price Amount (D) Common 375,000 1,457,113 Â Â 12/08/2012 G D \$0 D Stock (1) (2) **Joint** Common 125,000 account Â 12/08/2012 G A \$0 312,600 I Stock (1) with adult child (J) Â Common 12/08/2012 G 125,000 A \$0 312,600 I Joint Stock (1) account with adult

									child (K)
Common Stock	12/08/2012	Â	G	125,000 (1)	A	\$ 0	325,380	I	Joint account with adult child (S)
Common Stock	Â	Â	Â	Â	Â	Â	7,605,345	I	Shares held by Laitram, LLC
Common Stock	Â	Â	Â	Â	Â	Â	10,500	I	Co-Trustee for Children
Reminder: Re securities ben	Persons v contained the form o	SEC 2270 (9-02)							

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	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration Da	ate	Amou	nt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	lying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)
	Derivative				Securities			(Instr.	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									A mannt	
									Amount	
						Date Exercisable	Expiration Date		or Number	
								of		
					(A) (D)					
					(A) (D)				Shares	

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Reporting Owners

**Signature of Reporting Person

Reporting Owner Name / Address	Director	Relationsh	-	Other
LAPEYRE JAMES M JR 2105 CITYWEST BOULEVARD SUITE 400 HOUSTON, TX 77042-2839	ÂX	Â	Â	Â
Signatures				
/s/ Debra A. Addington, attorney-in-fact		01/24/2013		

Reporting Owners 2

Date

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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) Represents the transfer of shares to joint account with children.
- (2) Reflects the transfer of 5,700 shares from joint account with his spouse to reporting person's direct holdings.

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Remarks:

The reporting person disclaims beneficial ownership of all securities shown as indirectly owned by h Note: File three copies of this Form, one of which must be manually signed. If space provided 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.