GLOBAL GEOPHYSICAL SERVICES INC

Reported by

USHER CHRISTOPHER THERON

FORM 3

(Initial Statement of Beneficial Ownership)

Filed 04/21/10 for the Period Ending 04/21/10

Address	13927 SOUTH GESSNER MISSOURI CITY, TX 77489
Telephone	713-972-9200
CIK	0001311486
SIC Code	1382 - Oil and Gas Field Exploration Services

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FORM 3

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

OMB APPROVAL
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INITIAL STATEMENT OF 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

1. Name and Address of Reporting Person *	2. Date of Event Requiring Statement (MM/DD/YYYY)	3. Issuer Name **and** Ticker or Trading Symbol
Usher Christopher Theron	**4/21/2010**	**Global Geophysical Services Inc [GGS]**
(Last) (First) (Middle) **C/O GLOBAL GEOPHYSICAL SERVICES, INC., 13927 SOUTH GESSNER ROAD**	4. Relationship of Reporting Person(s) to Issuer (Check all applicable) _____ Director _____ 10% Owner ___ **X** ___ Officer (give title below) _____ Other (specify below) **Sr. V.P., Data & CTO /**	
(Street) **MISSOURI CITY, TX 77489** (City) (State) (Zip)	5. If Amendment, Date Original Filed (MM/DD/YYYY)	6. Individual or Joint/Group Filing (Check Applicable Line) _ **X** _ Form filed by One Reporting Person ___ Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1.Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Class B Common Stock	**30000**	**D**	

Table II - Derivative Securities Beneficially Owned (*e.g.* , puts, calls, warrants, options, convertible securities)

1. Title of Derivate Security (Instr. 4)	2. Date Exercisable and Expiration Date (MM/DD/YYYY)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Class B Incentive Stock Options	**12/31/2009**	**12/30/2018**	**Common Stock**	**15000** (1)	**$15**	**D**	
Class B Incentive Stock Options	**12/31/2009**	**12/30/2018**	**Common Stock**	**10000** (1)	**$20**	**D**	
Class B Incentive Stock Options	**12/31/2009**	**12/30/2018**	**Common Stock**	**20000** (1)	**$25**	**D**	
Class B Incentive Stock Options	**12/31/2009**	**12/30/2018**	**Common Stock**	**20000** (1)	**$30**	**D**	

Explanation of Responses:

(1) As of the filing date, none of these shares have vested. These shares will vest 25% on each of the following dates; March 31, 2011, March 31, 2012, March 31, 2013 and March 31, 2014

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Usher Christopher Theron **C/O GLOBAL GEOPHYSICAL SERVICES, INC.** **13927 SOUTH GESSNER ROAD** **MISSOURI CITY, TX 77489**			**Sr. V.P., Data & CTO**	

Signatures

/s/ Christopher T. Usher **4/21/2010**

** Signature of Reporting Person Date

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

***** If the form is filed by more than one reporting person, *see* Instruction 5(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.

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.