GRAE SETH Form 4 July 19, 2010

FORM 4

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

OMB Number:

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

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

See Instruction 1(b).

obligations

may continue.

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GRAE SETH

(Last)

1600 TYSON'S

(Print or Type Responses)

1. Name and Address of Reporting Person *

(First)

(Street)

(Middle)

2. Issuer Name and Ticker or Trading Symbol

LIGHTBRIDGE Corp [LTBR]

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

07/16/2010

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

5. Relationship of Reporting Person(s) to Issuer

OMB APPROVAL

Estimated average

burden hours per

Expires:

response...

3235-0287

January 31,

2005

0.5

(Check all applicable)

_X__ Director 10% Owner X_ Officer (give title Other (specify below)

President and CEO

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

Person

MCLEAN, VA 22102

BOULEVARD, SUITE 550

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative S	ecuriti	ies Acqu	ired, Disposed of	, or Beneficiall	y 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 on(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	07/16/2010		M	128,139	A	\$ 4.68	654,610	D	
Common Stock (1)	07/16/2010		F	70,719	D	\$ 8.48	583,891	D	
Common Stock	07/16/2010		J(2)	28,710	D	\$ 8.48	555,181	D	

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

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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. Transactic Code (Instr. 8)	5. Number of orDerivative 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 Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount of Number of Shares
Stock Option (Right to Buy) (3)	\$ 4.68	07/16/2010		M		128,139	10/06/2006	08/17/2010	Common Stock	128,139

Reporting Owners

Reporting Owner Name / Address	Relationships						
1 0	Director	10% Owner	Officer	Other			
GRAE SETH 1600 TYSON'S BOULEVARD SUITE 550 MCLEAN, VA 22102	X		President and CEO				

Signatures

/s/ Seth Grae 07/19/2010

**Signature of Date
Reporting Person

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) Surrender of shares of the Issuer's common stock in connection with the cashless exercise of a stock option.
- The Issuer redeemed 28,710 shares from Mr. Grae on July 16, 2010. The proceeds of this redemption were paid directly to federal and/or (2) state taxing authorities for tax withholding of Mr. Grae's tax liability relating to the cashless exercise of an option to purchase 128,139 shares of the Issuer's common stock.
- (3) Exercise of stock option.

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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