

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

OMB APPROVAL				
OMB Number:	3235-0104			
Estimated average burden				
nours per response				

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)								
1. Name and Address of Reporting Person* MARXE AUSTIN W & GREENHOUSE DAVID M	Stateme			3. Issuer Name and Ticker or Trading Symbol LIGHTBRIDGE Corp [LTBR]				
(Last) (First) (Middle) C/O SPECIAL SITUATIONS FUNDS, 527 MADISON AVENUE, SUITE 2600					c all applicable) X 10% Own tle Other (spe	Filed(Month/Day/Year) able)		
NEW YORK, NY 10022		below)		below)	Applicable L X Form fil	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person _Form filed by More than One Reporting Person		
(City) (State) (Zip)	(State) Table I - Non-Derivative Securities Beneficially Owned							
1.Title of Security (Instr. 4)	·	2. Amount of Securities Beneficially Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock		1,223,392 (1)		I (1)	By Limited Partnership (1)			
Reminder: Report on a separate line for each classification and the	oond to the isplays a cu	collection of irrently valid	information on the control	contained in I number.		ot required to res		
(Instr. 4)	2. Date Exerci Expiration Da Month/Day/Year)	te	· · · · · · · · · · · · · · · · · · ·		4. Conversio or Exercise Price of Derivative	Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)		
Warrant (2)	01/28/2011	07/28/2017	Common Stock (2)	454,546	\$ 9	I (2)	By Limited Partnership (2)	

Reporting Owners

Reporting Owner Name / Address		Relationships				
		10% Owner	Officer	Other		
MARXE AUSTIN W & GREENHOUSE DAVID M C/O SPECIAL SITUATIONS FUNDS 527 MADISON AVENUE, SUITE 2600 NEW YORK, NY 10022		X				

Signatures

Austin Marxe	01/28/2011
**Signature of Reporting Person	Date
David Greenhouse	01/28/2011
**Signature of Reporting Person	Date

Explanation of Responses:

- * 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).

- This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special (1) Situations Fund III QP, L.P. (QP), Special Situations Cayman Fund, L.P. (Cayman) and Special Situations Private Equity Fund, L.P. (PE). 764,932 shares of Common Stock are held by QP, 254,977 shares of Common Stock are held by Cayman, 203,983 shares of Common Stock are held by PE. The interest of Marxe and Greenhouse in the shares of Common Stock owned by QP, Cayman, PE and DG is limited to the extent of his pecuniary interest.
- This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Fund III QP, L.P (QP), Special Situations Cayman Fund, L.P. (Cayman) and Special Situations Private Equity Fund, LP (PE). 284,091 Warrants are owned by QP, 94,697 Warrants are owned by Cayman and 75,758 Warrants are owned by PE. The interest of Marxe and Greenhouse in the shares of Warrants owned by QP, Cayman and PE are limited to the extent of his pecuniary interest.

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.