

Brown Mark Thomas  
 Form 4  
 January 06, 2012

**FORM 4**

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

OMB APPROVAL

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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 \*  
 Brown Mark Thomas

2. Issuer Name and Ticker or Trading Symbol  
 RARE ELEMENT RESOURCES LTD [REE]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
 01/04/2012

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

C/O RARE ELEMENT RESOURCES LTD., 325 HOWE STREET, SUITE 410

(Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

VANCOUVER, A1 V6C 1Z7

(City) (State) (Zip)

**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	01/04/2012		M		50,000	A	0.55 <u>(1)</u>
Common Stock					4,000	I	Spouse
Common Stock					940,645	I	Pacific Opportunity Capital Ltd. <u>(3)</u>

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Common Stock	440,000	I	Registered Retirement Savings Plan
Common Stock	45,000	I	Spartacus Management Inc. <sup>(4)</sup>

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 number.**

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(9-02)

**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 Underlying Security (Instr. 3 and 4)	Amount or Number of Shares
Employee Stock Option (Right to Buy)	\$ 0.55 <sup>(1)</sup>	01/04/2012		M	50,000	01/10/2007 <sup>(2)</sup> 01/20/2012	Common Stock	50,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Brown Mark Thomas C/O RARE ELEMENT RESOURCES LTD. 325 HOWE STREET, SUITE 410 VANCOUVER, A1 V6C 1Z7	X			

## Signatures

/s/ Mark T.  
Brown

01/04/2012

\*\*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) Amount expressed in Canadian Dollars.

Options vested as follows: 20% of the options vested 4 months from 1/10/07 ("Grant Date"); 20% of the options vested 8 months from

(2) Grant Date; 20% of the options vested 12 months from Grant Date; 20% of options vested 15 months from Grant Date; 20% of the options vested 18 months from Grant Date.

(3) Pacific Opportunity Capital Ltd. is a private company controlled by the reporting person.

(4) Spartacus Management Inc. is a private company wholly-owned by the reporting person.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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