

Riordan Thomas
 Form 4
 February 21, 2013

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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 *
 Riordan Thomas

2. Issuer Name and Ticker or Trading Symbol
 Rockwood Holdings, Inc. [ROC]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 C/O ROCKWOOD HOLDINGS, INC., 100 OVERLOOK CENTER

3. Date of Earliest Transaction (Month/Day/Year)
 02/19/2013

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Senior Vice Pres, Law & Admin

(Street)
 PRINCETON, NJ 08540

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

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 Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock, par value \$0.01	02/19/2013		M	7,563 A	\$ 31.73	111,748	D
Common Stock, par value \$0.01	02/19/2013		M	3,087 A	\$ 32.39	114,835	D
Common Stock, par value \$0.01	02/19/2013		M	4,203 A	\$ 23.79	119,038	D

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

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SEC 1474
(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 of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Options (right to buy)	\$ 31.73	02/19/2013		M	7,563	<u>(1)</u> 05/16/2014	Common Stock, par value \$0.01 per share	7,563
Stock Options (right to buy)	\$ 32.39	02/19/2013		M	3,087	<u>(2)</u> 12/14/2014	Common Stock, par value \$0.01 per share	3,087
Stock Options (right to buy)	\$ 23.79	02/19/2013		M	4,203	<u>(3)</u> 12/11/2016	Common Stock, par value \$0.01 per share	4,203

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Riordan Thomas C/O ROCKWOOD HOLDINGS, INC. 100 OVERLOOK CENTER PRINCETON, NJ 08540			Senior Vice Pres, Law & Admin	

Signatures

/s/ Thomas J.
Riordan

02/21/2013

__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) These time-based options were granted on May 16, 2007 and vested in three equal annual installments beginning on the December 31st of the year following the grant date.
 - (2) These time-based options were granted on December 14, 2007 and vested in three equal annual installments beginning on the December 31st of the year following the grant date.
 - (3) These time-based options were granted on December 11, 2009 and vested in three equal annual installments beginning on the December 31st of the year following the grant date.

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.