

Riordan Thomas  
 Form 4  
 September 13, 2010

**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 \*  
 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)  
 09/09/2010

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 SVP, Law & Administration

(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	09/09/2010		M	6,845 A	\$ 14.61	56,164	D
Common Stock, par value \$0.01	09/09/2010		F	3,571 D	\$ 28	52,593	D
Common Stock, par value \$0.01	09/09/2010		M	6,845 A	\$ 14.61	59,438	D
Common Stock, par	09/09/2010		F	3,571 D	\$ 28	55,867	D

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value \$0.01

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

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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 of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Options (right to buy)	\$ 14.61	09/09/2010		M	6,845	<u>(1)</u> 02/02/2011	Common Stock, par value \$0.01 per share	6,845
Stock Options (right to buy)	\$ 14.61	09/09/2010		M	6,845	<u>(2)</u> 10/15/2014	Common Stock, par value \$0.01 per share	6,845

## 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

SVP, Law & Administration

## Signatures

/s/ Thomas J.  
Riordan

09/13/2010

Date

\_\_Signature of  
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) These options were granted on February 2, 2001 and vested 10% on each of the first and second anniversary of the grant date, 25% on each of the third and fourth anniversary of the grant date and 30% on the fifth anniversary of the grant date.
- (2) These options were granted on October 15, 2004 and vested in five equal annual installments beginning October 15, 2005.

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.