

Riordan Thomas
Form 4
May 18, 2011

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

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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

(Last) (First) (Middle)

C/O ROCKWOOD HOLDINGS, INC., 100 OVERLOOK CENTER

(Street)

PRINCETON, NJ 08540

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

Rockwood Holdings, Inc. [ROC]

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

05/16/2011

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
S.V.P., Law & Administration

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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(D)	Price
Common Stock, par value \$0.01	05/16/2011		M		32,429	A	\$ 14.61
					115,433		
Common Stock, par value \$0.01	05/16/2011		M		27,380	A	\$ 14.61
					142,813		
Common Stock, par value \$0.01	05/16/2011		S		50,609	D	\$ 50.2137
					92,204		

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Common Stock, par value \$0.01	05/16/2011	S	9,200	D	\$ 50.9379 <u>(2)</u>	83,004	D
Common Stock, par value \$0.01	05/18/2011	M	1,796	A	\$ 14.61	84,800	D
Common Stock, par value \$0.01	05/18/2011	S	1,796	D	\$ 50.0188 <u>(3)</u>	83,004	D

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.

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	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
Stock Options (right to buy)	\$ 14.61	05/16/2011		M	32,429	<u>(4)</u>	10/15/2014	Common Stock, par value \$0.01 per share	32,429
Stock Options (right to buy)	\$ 14.61	05/16/2011		M	27,380	<u>(5)</u>	10/15/2014	Common Stock, par value \$0.01 per share	27,380
Stock Options (right to buy)	\$ 14.61	05/18/2011		M	1,796	<u>(4)</u>	10/15/2014	Common Stock, par value \$0.01 per share	27,380

