Zatta Robert J Form 4 December 17, 2010

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

OMB APPROVAL OMB

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Form 4 or Form 5 obligations may continue.

Check this box

if no longer

Section 16.

subject to

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

SECURITIES

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Zatta Robert J Issuer Symbol Rockwood Holdings, Inc. [ROC] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title _ Other (specify C/O ROCKWOOD HOLDINGS. 12/15/2010 below) INC., 100 OVERLOOK CENTER Senior VP & CFO (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting PRINCETON, NJ 08540 Person

(City)	(State)	(Zip) Tab	ole I - Non-	Derivative So	ecur	ities Acquii	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)		l of (D)	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)
Common Stock, par value \$0.01	12/15/2010		M	10,000 A	A	\$ 14.61	76,478	D	
Common Stock, par value \$0.01	12/15/2010		M	3,868 A	A	\$ 14.61	80,346	D	
Common Stock, par value \$0.01	12/15/2010		M	6,132 A	A	\$ 14.61	86,478	D	

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Common Stock, par	12/15/2010	S	20,000	D	\$ 41.4006	66,478	D
value	12/13/2010	3	20,000	D	(1)	00,470	ט
\$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. Transactic Code (Instr. 8)	FransactionDerivative Code Securities		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Options (right to buy)	\$ 14.61	12/15/2010		M		10,000	(2)	10/15/2014	Common Stock, par value \$0.01 per share	10,000
Stock Options (right to buy)	\$ 14.61	12/15/2010		M		3,868	<u>(3)</u>	09/15/2011	Common Stock, par value \$0.01 per share	3,868
Stock Options (right to buy)	\$ 14.61	12/15/2010		M		6,132	<u>(4)</u>	09/15/2011	Common Stock, par value \$0.01 per share	6,132

Reporting Owners

Reporting Owner Name / Address	Relationships						
·	Director	10% Owner	Officer	Other			
Zatta Robert J			Senior				
C/O ROCKWOOD HOLDINGS, INC.			VP &				

Reporting Owners 2

100 OVERLOOK CENTER PRINCETON, NJ 08540

CFO

Signatures

/s/ Robert J. 12/17/2010 Zatta

**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).
- This transaction was executed in multiple trades at share prices ranging from \$41.2628 to \$41.7000. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer, full information regarding the number of shares and prices at which the transaction was effected. This transaction was executed pursuant to the terms of a trading plan under SEC Rule 10b5-1.
- (2) These performance-based options were granted on October 15, 2004 and vested 20% on each anniversary of the grant date and expire on October 15, 2014.
- (3) These performance-based options were granted on September 15, 2001 and vested 20% on each anniversary of the grant date and expire on September 15, 2011.
- These time-based options were granted on September 15, 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 and expire on September 15, 2011.

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.

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