Sullivan James T Form 4 March 05, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

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(b).

(Last)

(City)

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading Sullivan James T Symbol

(Middle)

(Zip)

Rockwood Holdings, Inc. [ROC]

3. Date of Earliest Transaction

(Month/Day/Year) 02/25/2010

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

(Street)

(State)

(First)

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

X_ Officer (give title Other (specify below) Controller & Prin. Acct Office

6. Individual or Joint/Group Filing(Check Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting Person

PRINCETON, NJ 08540

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially (D) or Owned Following Reported

Director

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

10% Owner

(A) Code V Amount (D)

Transaction(s) (Instr. 3 and 4) Price

Common Stock, par

value \$0.01

02/25/2010

2.938

13,638

D

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

(Month/Day/Year)

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exer | cisable and | 7. Title | and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|-------------------|------------------------|--------------|-------------|-----------------|----------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | TransactionNumber | | Expiration D | ate | Amour | nt of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underl | ying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securit | ies | (Instr. 5) | Bene |
| | Derivative | | | | Securities Acquired | | | (Instr. : | 3 and 4) | | Owne |
| | Security | | | | | | | | | | Follo |
| | · | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | A | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | | | or | | |
| | | | | | | Exercisable | | Title Number of | | | |
| | | | | | | | | | | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Sullivan James T C/O ROCKWOOD HOLDINGS, INC. 100 OVERLOOK CENTER PRINCETON, NJ 08540

Controller & Prin. Acct Office

Signatures

/s/ James T. 03/05/2010 Sullivan

**Signature of Date
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).

Represents restricted stock units payable in shares of common stock of Rockwood Holdings, Inc. (the "Issuer") on December 31, 2011, subject to the reporting person's continued employment with the Issuer. These restricted stock units constitute the portion of performance-based restricted stock units of the Issuer granted in December 2008 that vested based upon the Issuer's 2009 financial performance.

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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