

Rockwood Holdings, Inc.  
Form SC 13G/A  
February 14, 2011

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. 05)\*

Rockwood Holdings, Inc.

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(Name of Issuer)

Common Stock, par value, \$0.01 per share

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(Title of Class of Securities)

774415103

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(CUSIP Number)

Calendar Year 2010

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(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. 774415103

**1** NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
CREDIT SUISSE AG/  
N/A

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  
(a)   
(b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION  
Switzerland

**5** SOLE VOTING POWER  
0

NUMBER OF  
SHARES  
BENEFICIALLY **6**  
OWNED BY  
EACH  
REPORTING  
PERSON WITH: **7**

SHARED VOTING POWER  
1,953,410  
SOLE DISPOSITIVE POWER  
0

**8** SHARED DISPOSITIVE POWER  
4,881,075

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
4,881,075

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.44%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

BK , HC

FOOTNOTES

See Exhibit 99.1 and Exhibit 99.2.

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Item 1.

- (a) Name of Issuer  
Rockwood Holdings, Inc.
- (b) Address of Issuer's Principal Executive Offices  
100 Overlook Center  
Princeton, New Jersey, 08540  
United States of America

Item 2.

- (a) Name of Person Filing  
Credit Suisse AG  
See Exhibit 99.1
- (b) Address of Principal Business Office or, if none, Residence  
Uetlibergstrasse 231  
P.O. Box 900  
CH-8070  
Zurich, Switzerland
- (c) Citizenship  
Switzerland
- (d) Title of Class of Securities  
Common Stock, par value \$0.01 per share
- (e) CUSIP Number  
774415103

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e)  An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);

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- (h) o A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
  - (i) o A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
    - (j) o A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J).
  - (k) o A group, in accordance with § 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
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Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 4,881,075
- (b) Percent of class: 6.44
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote: 0
  - (ii) Shared power to vote or to direct the vote: 1,953,410
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 4,881,075

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following o .

Not Applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company

See Exhibit 99.1.

Item 8. Identification and Classification of Members of the Group

Not Applicable.

Item 9. Notice of Dissolution of Group

Not Applicable.

Item Certification  
10.

Not applicable.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

**Credit Suisse AG**

Date: February 14, 2011

By: /s/ Ivy Dodes  
Name: Ivy Dodes  
Title: Managing Director

Footnotes:

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)

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