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

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported):

August 2, 2010

Cliffs Natural Resources Inc.

(Exact name of registrant as specified in its charter)

Ohio

1-8944

34-1464672

(State or other jurisdiction  
of incorporation)

(Commission  
File Number)

(I.R.S. Employer  
Identification No.)

200 Public Square, Suite 3300, Cleveland, Ohio

44114-2315

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

216-694-5700

Not Applicable

Former name or former address, if changed since last report

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 2.01 Completion of Acquisition or Disposition of Assets.**

On August 2, 2010, Cliffs Natural Resources Inc. (the "Company") completed its previously announced acquisition of INR Energy, LLC ("INR") pursuant to a Membership Interest Purchase Agreement ("Membership Agreement") dated July 2, 2010 among the Company, INR Energy, LLC, and INR-1 Holdings LLC. INR operates West Virginia metallurgical and thermal coal reserves, and preparation and processing plants. The Membership Agreement is filed as Exhibit 2(a) to Item 9.01 of this Form 8-K and is incorporated by reference to this Item 2.01.

As previously announced, the Company financed the \$757 million transaction through available liquidity, cash on hand, and the Company's \$600 million credit facility.

**Item 9.01 Financial Statements and Exhibits.**

Exhibits

(d)

2(a) Membership Interest Purchase Agreement among Cliffs Natural Resources Inc., INR Energy, LLC, and INR-1 Holdings LLC dated July 2, 2010 (as filed as Exhibit 2(a) of Form 8-K dated July 7, 2010)

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

*August 6, 2010*

Cliffs Natural Resources Inc.

*By: Traci L. Forrester*

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*Name: Traci L. Forrester  
Title: Assistant Secretary*