

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

**POST-EFFECTIVE AMENDMENT No. 1  
TO  
FORM S-4  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

**CLIFFS NATURAL RESOURCES INC.**

*(Exact name of registrant as specified in its charter)*

**Ohio**  
*(State or Other Jurisdiction of  
Incorporation or Organization)*

**1000**  
*(Primary Standard Industrial  
Classification Code Number)*

**34-1464672**  
*(I.R.S. Employer Identification Number)*

**1100 Superior Avenue  
Cleveland, Ohio 44114-2544  
(216) 694-5700**  
*(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)*

**George W. Hawk, Jr., Esq.  
General Counsel and Secretary  
Cliffs Natural Resources Inc.  
1100 Superior Avenue  
Cleveland, Ohio 44114-2544  
(216) 694-5700**  
*(Name, address, including zip code, and telephone number, including area code, of agent for service)*

*Copies of all communications, including communications sent to agent for service, should be sent to:*

**Lyle G. Ganske, Esq.  
James P. Dougherty, Esq.  
Jones Day  
901 Lakeside Avenue  
Cleveland, Ohio 44114  
(216) 586-3939**

**Vaughn R. Groves, Esq.  
Vice President and General Counsel  
Alpha Natural Resources, Inc.  
P.O. Box 2345  
Abingdon, Virginia 24212  
(276) 628-3116**

**Ethan A. Klingsberg, Esq.  
Jeffrey S. Lewis, Esq.  
Cleary Gottlieb Steen & Hamilton LLP  
One Liberty Plaza  
New York, NY 10006  
(212) 225-3999**

**Approximate date of commencement of proposed sale to the public:** Not applicable.

If the securities being registered on this form are being offered in connection with the formation of a holding company and there is compliance with General Instruction G, check the following box.

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act

Large accelerated filer  Accelerated filer   
Non-accelerated filer  Smaller reporting company

### **Deregistration of Securities**

This Post-Effective Amendment No. 1 to the Registration Statement of Cliffs Natural Resources Inc. (formerly known as Cleveland-Cliffs Inc), an Ohio corporation (“Cliffs”), on Form S-4 (File No. 333-152974) filed with the Securities and Exchange Commission on August 12, 2008, as amended on September 22, 2008 and October 15, 2008 (the “Registration Statement”), and declared effective on October 23, 2008, is being filed in order to deregister all Cliffs common shares, par value \$0.125 per share, that were registered under the Registration Statement (the “Registered Securities”) for issuance pursuant to that certain Agreement and Plan of Merger dated as of July 15, 2008, by and among Cliffs, Alpha Merger Sub, Inc. (formerly known as Daily Double Acquisition, Inc.), a Delaware corporation and a wholly-owned subsidiary of Cliffs, and Alpha Natural Resources, Inc., a Delaware corporation (the “Merger Agreement”). The Merger Agreement was terminated effective as of November 17, 2008, as a result of which no securities of Cliffs will be issued under the Merger Agreement. Accordingly, Cliffs is filing this Post-Effective Amendment No. 1 to deregister, and Cliffs hereby removes from registration, all of the Registered Securities that are no longer issuable as a result of the termination of the Merger Agreement. The Registered Securities remained unissued and unsold as of the date of the termination of the Merger Agreement and as of the date of the filing of this Post-Effective Amendment No. 1, and, upon the deregistering of the Registered Securities, no securities will remain registered for sale under the Registration Statement.

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**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this post-effective amendment to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cleveland, State of Ohio on November 17, 2008.

CLIFFS NATURAL RESOURCES INC.  
(Registrant)

By: /s/ George W. Hawk, Jr.  
Name: George W. Hawk, Jr.  
Title: General Counsel and Secretary

Pursuant to the requirements of the Securities Act of 1933, this post-effective amendment to the Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
* <u>Joseph A. Carrabba</u>	Chairman, President and Chief Executive Officer, Director	November 17, 2008
* <u>R.C. Cambre</u>	Director	November 17, 2008
* <u>S. M. Cunningham</u>	Director	November 17, 2008
* <u>B. J. Eldridge</u>	Director	November 17, 2008
* <u>S. M. Green</u>	Director	November 17, 2008
* <u>J.D. Ireland, III</u>	Director	November 17, 2008
* <u>F.R. McAllister</u>	Director	November 17, 2008
* <u>R. Phillips</u>	Director	November 17, 2008
* <u>R.K. Riederer</u>	Director	November 17, 2008
* <u>A. Schwartz</u>	Director	November 17, 2008
* <u>L. Brlas</u>	Executive Vice President and Chief Financial Officer	November 17, 2008

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\* The undersigned, pursuant to a power of attorney, executed by each of the officers and directors above and filed with the Securities and Exchange Commission on August 12, 2008, as Exhibit 24(a) to the Registration Statement and incorporated herein by reference, by signing his name hereto, does hereby sign and deliver this post-effective amendment to the Registration Statement on behalf of each of the persons noted above in the capacities indicated.

By: /s/ George W. Hawk, Jr.  
George W. Hawk, Jr.  
Attorney-in-Fact