

ARCH COAL INC  
Form 8-K  
May 12, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 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): May 12, 2010 (May 12, 2010)**

**Arch Coal, Inc.**

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)	1-13105 (Commission File Number)	43-0921172 (I.R.S. Employer Identification No.)
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CityPlace One  
One CityPlace Drive, Suite 300  
St. Louis, Missouri 63141

(Address, including zip code, of principal executive offices)

Registrant's telephone number, including area code: (314) 994-2700

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 7.01 Regulation FD Disclosure.**

On May 12, 2010, John Drexler, Senior Vice President and Chief Financial Officer of Arch Coal, Inc., will deliver a presentation at the Bank of America Merrill Lynch 2010 Global Metals & Mining Conference that will include written communication comprised of slides. The slides from the presentation are attached hereto as Exhibit 99.1 and are hereby incorporated by reference.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

The following exhibit is attached hereto and furnished herewith.

Exhibit No.	Description
99.1	Slides from the Bank of America Merrill Lynch 2010 Global Metals & Mining Conference. 1

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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.

Dated: May 12, 2010

Arch Coal, Inc.

By: /s/ Robert G. Jones  
Robert G. Jones  
Senior Vice President Law, General  
Counsel  
and Secretary

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**Exhibit Index**

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