

ARCH COAL INC  
Form 8-K  
April 22, 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): April 22, 2010 (April 22, 2010)**

**Arch Coal, Inc.**

(Exact name of registrant as specified in its charter)

|   |                                     |  |
|---|-------------------------------------|--|
| Delaware<br>(State or other jurisdiction of<br>incorporation) | 1-13105<br>(Commission File Number) | 43-0921172<br>(I.R.S. Employer Identification No.) |
|---|-------------------------------------|--|

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 April 22, 2010, Steven F. Leer, Chairman and Chief Executive Officer of Arch Coal, Inc. (the Company ), will deliver a presentation at the Company s 2010 annual stockholders meeting. The slides from the presentation are attached as Exhibit 99.1 hereto and are hereby incorporated by reference.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

The following exhibits are attached hereto and filed herewith.

| Exhibit<br>No. | Description   |
|----------------|---|
| 99.1           | Slides from the presentation at the 2010 annual stockholders meeting. |

**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: April 22, 2010

Arch Coal, Inc.

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

**Exhibit Index**

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|----------------|---|
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