

PEABODY ENERGY CORP  
Form 8-K  
May 11, 2010

**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) May 11, 2010**

**PEABODY ENERGY CORPORATION**

(Exact name of registrant as specified in its charter)

<b>Delaware</b> (State or other jurisdiction of incorporation or organization)	<b>1-16463</b> (Commission File Number)	<b>13-4004153</b> (I.R.S. Employer Identification No.)
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**701 Market Street, St. Louis, Missouri**  
(Address of principal executive offices)

**63101-1826**  
(Zip Code)

Registrant's telephone number, including area code **(314) 342-3400**

**N/A**

(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 7.01. Regulation FD Disclosure.**

On May 11, 2010, Peabody Energy Corporation ( Peabody ) management will be presenting at the Bank of America Merrill Lynch Global Metals and Mining Conference in Miami, Florida. A related written presentation is furnished as Exhibit 99.1 hereto.

**Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits.

Exhibit No.	Description of Exhibit
99.1	Peabody written presentation dated May 11, 2010.

**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.

**PEABODY ENERGY CORPORATION**

*May 11, 2010*

*By: /s/ Kenneth L. Wagner*

*Name: Kenneth L. Wagner*

*Title: Vice President, Assistant General  
Counsel and Assistant Secretary*

**EXHIBIT INDEX**

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4