PEABODY ENERGY CORP Form 8-K February 01, 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) February 1, 2010 PEABODY ENERGY CORPORATION

(Exact name of registrant as specified in its charter)

Delaware 1-16463 13-4004153

(State or other jurisdiction of incorporation or organization)

(Commission File Number) (I.R

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

701 Market Street, St. Louis, Missouri

63101-1826

(Address of principal executive offices)

(Zip Code)

Registrant s telephone number, including area code ccodecode (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:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01. Regulation FD Disclosure.

On February 1 and 2, 2010, Peabody Energy Corporation (Peabody) management will be addressing investors at the Credit Suisse 2010 Energy Summit in Vail, Colorado. 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

Peabody written presentation dated February 2, 2010.

2

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

February 1, 2010 By: /s/ Kenneth L. Wagner

Name: Kenneth L. Wagner

Title: Vice President, Assistant General

Counsel and Assistant Secretary

3

EXHIBIT INDEX

Exhibit No. Description of Exhibit

99.1 Peabody written presentation dated February 2, 2010.

4