

PEABODY ENERGY CORP  
Form 8-K  
May 18, 2010

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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 18, 2010

PEABODY ENERGY CORPORATION

(Exact name of registrant as specified in its charter)

Delaware

1-16463

13-4004153

(State or other jurisdiction  
of incorporation)

(Commission  
File Number)

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

701 Market Street, St. Louis, Missouri

63101

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

(314) 342-3400

Not Applicable

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))

**Top of the Form**

**Item 7.01 Regulation FD Disclosure.**

On May 9, 2010, Peabody Energy Corporation ("Peabody") announced that it had submitted a revised definitive proposal to acquire a controlling interest in Macarthur Coal Limited (ASX: MCC). On May 18, 2010, Macarthur made a public announcement that the Macarthur Board has met and considered Peabody's revised proposal and formed the view that based on the price and the conditions of the proposal, that it cannot reasonably be recommended to shareholders. A copy of Peabody's press release responding to Macarthur's public announcement is furnished as Exhibit 99.1 hereto.

**Item 9.01 Financial Statements and Exhibits.**

Exhibit No. 99.1 Peabody press release dated May 18, 2010.

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**Top of the Form**

**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 18, 2010*

By: *Kenneth L. Wagner*

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*Name: Kenneth L. Wagner*

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

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**Top of the Form**

Exhibit Index

<b><u>Exhibit No.</u></b>	<b><u>Description</u></b>
99.1	Peabody press release dated May 18, 2010.