BOYCE GREGORY H

Form 5

January 14, 2011

OMB APPROVAL FORM 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB 3235-0362 Number:

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response...

no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

Check this box if

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940

Form 4

Transactions Reported

1. Name and Add BOYCE GRE	•	orting Person *	2. Issuer Name and Ticker or Trading Symbol PEABODY ENERGY CORP [BTU]	5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First)	(Middle)	3. Statement for Issuer's Fiscal Year Ended	(Check all applicable)			
PEABODY ENERGY CORPORATION, 701 MARKET STREET		MARKET	(Month/Day/Year) 12/31/2010	X Director 10% Owner Specify officer (give title Other (specify below) Chairman and CEO			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Reporting			
			Filed(Month/Day/Year)	(check applicable line)			

ST. LOUIS, MOÂ 63101

X Form Filed by One Reporting Person Form Filed by More than One Reporting

(City)	(State) (Z	Zip) Table	e I - Non-Deri	vative Secu	urities .	Acquii	red, Disposed of	, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securiti (A) or Dis (D) (Instr. 3, 4)	sposed of and 5) (A) or	of	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	02/06/2009	Â	G5	29,921	D	\$ <u>(1)</u>	131,443	D	Â
Common Stock	02/06/2009	Â	G5	29,921	A	\$ <u>(1)</u>	69,921	I	By Family Trust
D D	. 11		.						GEG 2250

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 2270 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	e and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration Da	ate	Amou	nt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)
	Derivative				Securities			(Instr.	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
									or	
						Date Expirat Exercisable Date	Expiration	Title	Number	
							Date		of	
					(A) (D)				Shares	
					(II)				Dilaics	

of D

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
OYCE GREGORY H						

BOYCE GREGORY H PEABODY ENERGY CORPORATION 701 MARKET STREET ST. LOUIS, MOÂ 63101

 $\hat{A} \ X \qquad \hat{A} \qquad \hat{A} \qquad \hat{A} \quad Chairman \ and \ CEO \quad \hat{A}$

Signatures

Gregory A. Boyce By Kenneth L. Wagner
Attorney-in-fact
01/14/2011

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Not applicable.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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