## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

wasnington,	D.C.	20549	

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL

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0.5

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Taylor Wes M					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]										Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner					
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 09/14/2012										Office below	r (give title )		Other (sbelow)	specify	
(Street) ST. LOU (City)				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. I Lin	Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transar Date (Month/Date)  Table II - Derivati					action ay/Yea	ay/Year) Execution Date, if any (Month/Day/Year) Transaction Code (Instr. 3, 5) Disposed Of (D) (Instr. 3, 7)					(A) or 3, 4 and Price	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemee Execution I if any (Month/Day	Date, T	Code (		of		Expir	te Exerc ration Da th/Day/\	ate		and 7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	/ [i	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				C	Code	v	(A)	(D)	Date Exerc	cisable	Ex Da	piration te	Title	or Nu of	ımber					
Phantom	(1)	09/14/2012			Α		90			(2)		(2)	Common	1	90	\$7.91	23,752	- 1	D	

## **Explanation of Responses:**

- 1. Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan"). The shares of phantom stock acquired by the director represent dividends attributable to amounts that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.
- 2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer amounts held in the phantom stock account into an alternative investment account at any time.

## Remarks:

/s/ Jon S. Ploetz, Attorney-in-

09/17/2012

Fact

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.