FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [D.C.	20549
---------------	------	-------

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	OVAL
	OMB Number:	3235-0287
l	Estimated average burd	en
	hours per response:	0.5

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

1. Name and Address of Reporting Person* <u>Taylor Wes M</u>						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								ck all appl	icable)	g Per	rson(s) to Iss 10% Ov		
(Last)	Fi ΓΥΡLΑCE	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/15/2011								Officer (give tit below)			Other (s below)	specify	
(Street) ST. LOU (City)			63141 (Zip)		4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Inc Line)	Form Form	idual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
(Oily)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)			2. Trans Date (Month/	Day/Year) if any			2A. Deemed Execution Date, if any (Month/Day/Year)		ction Dispos Instr. 5)		urities Acquired (A led Of (D) (Instr. 3,		4 and Securi Benefi Owned Report		ties For cially (D) Following (I) (n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date, Trans			5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr	vative rities nired r osed)	Expiration	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y G	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amou or Numb of Share	er					
Phantom Stock	(1)	12/15/2011			A		145		(2)	T	(2)	Common Stock	145	5	\$14.08	18,768		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/ Robert G. Jones, Attorney-

12/16/2011

in-Fact

** Signature of Reporting Person

Date

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

- * 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.