FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C	C. 20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	VAL						
OMB Number:	3235-0287						
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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]								ationship all appl Direct	,	g Per	rson(s) to Iss			
			3. Date of Earliest Transaction (Month/Day/Year) 03/31/2011									Office below	r (give title)		Other (s	specify		
(Street) ST. LOU (City)		tate) (53141 Zip)					·		d (Month/l			Line) X	Form Form Perso		e Rep	orting Perso	on
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				ate	Execution Date,			Cod	Transaction Code (Instr. 3, 5)		ıstr. 3, 4	4 and Securit Benefic Owned Report		ties For (D) I Following (I) (n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Cod	: V	Amoun	Amount (A) or (D)		e		action(s) 3 and 4)				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
				ransaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivativ Security (Instr. 5)				Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Co	de V	(A)	(D)	Date Exercisa		Expiration Date	Title	Amour or Number of Shares	er					
Phantom Stock	(1)	03/31/2011		A	A .	416		(2)		(2)	Common Stock	416	\$	36.04	16,862		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") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.
- 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-

04/01/2011

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.

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