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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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OMB APPROVAL OMB Number: Estimated average burden

0.5

hours per response:

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 Moc. M.						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
Taylor Wes M															X Direct	or		10% O	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 03/30/2007									Office below	r (give title)		Other (s	specify
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									i. Individual or Joint/Group Filing (Check Applicable ine)				
,	ST. LOUIS MO 63141														_	Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(State) (Zip)													Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution D			Code (Instr.						Benefic Owned	ies Form ially (D) (Following (I) (I		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	nt (A) or (D)		Price	Reporte Transac (Instr. 3	tion(s)			(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,	I. Fransaction Code (Instr. B)		ı of		6. Date Ex Expiration (Month/Da	Date		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		urity	8. Price of Derivative Security (Instr. 5)		Ownersh Form: Direct (D) or Indirect (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisab		xpiration ate	Title	or	ount nber res					
Phantom Stock	(1)	03/30/2007			A		774		(2)		(2)	Common Stock	7	74	\$30.69	6,114		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 certain portions of the phantom stock account into an alternative investment account at any time.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

04/10/2007

** 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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