FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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\neg	Section 16. Form 4 or Form 5
J	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

					_									_						
Name and Address of Reporting Person* Taylor Woo M					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]							(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
<u>Taylor Wes M</u>									-					X Directo	or		10% O	vner		
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 03/31/2009								Officer below)	(give title		Other (s	specify		
ONE CITYPLACE DRIVE				1 55/	03/31/2003															
ONE OF THE MOLDINAL					1									+ .						
(Street)					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
ST. LOU	IS M	0	63141											-		•		•		
													Form 1	n filed by More than One Reporting son						
(City)	(S	tate) ((Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
			101111111111111111111111111111111111111								1	-			_					
1. Title of Security (Instr. 3) 2. Transac					action	2A. Deemed Execution Date,			3. 4. Securities Acquired (A) Transaction Disposed Of (D) (Instr. 3, 4								7. Nature of Indirect			
(Month/D							ay/Year) if any (Month/Day/Year)		Code (Instr. 5)			Benefici				Beneficial Ownership				
					(Monthin Day/Tear)		", ",	1,			- Reporte	ed ('``			(Instr. 4)					
								Code	V	Amount	nt (A) or Pi		Price		ransaction(s) nstr. 3 and 4)					
		т	able II - [)orivot	tivo 9	Soci	ritios	۸۰۰	uirod Di	cna	scod of	or Por	ofi.	براادند	Owned					
		ı							ם, option						Owned					
(0 / 1						· · · · · · · · · · · · · · · · · · ·			1	9 Dring of	0 Number of		10	11 Noture						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Date, Transacti Code (Ins					6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
													An	nount						
									Data		valuatia		Nu	mber						
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	of Sh	ares						
Phantom Stock	(1)	03/31/2009	04/09/20	009	A		1,122		(2)		(2)	Common Stock	1,	,122	\$13.37	11,275		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/ Gregory A. Billhartz, Attorney-in-Fact 04/10/2009

** 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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