FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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OMB APPROVAL									
OMB Nu	ımber:	3235-028							

Estimated average burden hours per response: 0.5

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

1. Name and Address of Reporting Person* PERRY A MICHAEL				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								k all appli	,						
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 03/31/2009								Officer below)	(give title		Other (s below)	specify		
(Street)	TIS M	0	63141		4. If	f Ame	ndment,	Date	of Original I	=iled	(Month/D	ay/Year)		6. Ind Line)	Form	Joint/Group filed by One filed by Moren	Repo	orting Perso	n
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				action Day/Year) 2A. Deemed Execution Date, if any (Month/Day/Year) tive Securities Acqui			3. Transac Code (II 8) Code	etion nstr. V	4. Secur Dispose 5) Amount	ities Acqui d Of (D) (In (A) (D)	red (A) str. 3, 4	or l and ice	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Form: Direct (D) or Indirect (I) (Instr. 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. Deemed Execution D if any (Month/Day/	Date, Transa Code (of E		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Sect (Instr. 3 and 4)		S (I	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amo or Num of Share	ber					
Phantom Stock	(1)	03/31/2009	04/09/20	009	A		2,898		(2)		(2)	Common Stock	2,8	98	\$13.37	20,408		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.

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.