## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Nu	ımber:	3235-028							

OMB Number: 3235-0287 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 S	Sectio	n 30(h)	) of the	Ínve	estment	Comp	any Act	of 19	940							
Name and Address of Reporting Person* PERRY A MICHAEL					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]									5. Relationship of Reporting Person(s) to (Check all applicable)					suer		
														X	Directo	or		10% O	wner		
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 06/13/2008											Officer below)	(give title		Other ( below)	specify		
Street)					4. If	Amer	ndment	t, Date	of O	riginal F	iled (I	Month/D	ay/Ye	ear)	6. Lin		dual or	Joint/Group	Filin	g (Check Ap	pplicable
ST. LOU	TIS M	0	63141													X	Form 1	filed by Mor		orting Person n One Repo	
(City)	(S	tate)	(Zip)														Perso	n 			
		Tab	le I - Nor	า-Deriva	ative	Sec	uritie	es Ac	cqui	ired, C	oisp	osed (	of, o	r Ber	eficia	lly C	Owned	t			
Title of Security (Instr. 3)  2. Transa Date (Month/D				Execution D			on Date	•,	3. Transaction Code (Instr. 8)  4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			d :	Securities Beneficially		Form (D) o	n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code V Amount (A) or (D)				Price	Tropposition(s)					(111511.4)						
		Т	able II - I	Derivati (e.g., pu												/ Ov	vned				
Derivative Conversion Date Execution Gecurity or Exercise (Month/Day/Year) if any			3A. Deeme Execution if any (Month/Da	Date, T	4. Transaction Code (Instr. 8)		of E		Expi	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			Deri Sec	rivative durity Setr. 5) B	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownershij (Instr. 4)
					Code.	v	(A)	(D)	Date	e rcisable		oiration	Title	1	Amount or Number of						

## **Explanation of Responses:**

(1)

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)

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.

20

#### Remarks:

Phantom

Stock

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

20

\$71.5

Common

Stock

(2)

06/17/2008

15,984

D

\*\* Signature of Reporting Person

Date

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

 $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

06/13/2008

\*\* 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.