FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

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Name and Address of Reporting Person* PER DN/ A N (LC) A FI PE						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
PERRY A MICHAEL					1		1 00.		<u> </u>) >	Direct	or		10% O	vner	
(Last)	(Fi	rst) (3. Date of Earliest Transaction (Month/Day/Year) 06/29/2007									Office below	r (give title)		Other (s	specify			
ONE CITYPLACE DRIVE						00/20/2007														
						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable						
(Street)						, 3 (Line)					
ST. LOU	IIS M	0	53141)	X Form filed by One Reporting Person					
															Form Perso	filed by More n	e than	One Repo	rting	
(City)	(S	tate) ((Zip)																	
		Tab	le I - Nor	า-Deriv	ative	Se	curitie	es Ad	cquired,	Dis	osed	of, or B	enefi	ciall	y Owne	d				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						ar) I	Execution f any	A. Deemed xecution Date, any Month/Day/Year)		3. Transaction Code (Instr. 8) 4. Securities Acquire Disposed Of (D) (Instr. 5)				5. Amou Securiti Benefic Owned Reporte	es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A) or (D)		rice	Transac (Instr. 3	tion(s)			(111511.4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
4 Tidf		 			 					<u> </u>		£ 0 November of			44 Notices					
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/Yea	Date,	Code (In:				6. Date Exe Expiration I (Month/Day	Date		Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ov Fo Dii or (I)	O. Ownership Form: Direct (D) Ir Indirect () (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amo or Num of Shar	ber						
Phantom Stock	(1)	06/29/2007			A		539	, ,	(2)		(2)	Common Stock	53	9	\$34.8	22,655		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

** Signature of Reporting Person Date

07/02/2007

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.