### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APP	ROVAL
OMB Nissalass	2025.00

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#### 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	n 30(n	) or the	nvestm	ent Co	mpany Ac	t of 194	U						
1. 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 Issuer (Check all applicable)						
				$I^{-}$					-					X Direc	tor		10% Ov	vner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 03/30/2007								Office belov	er (give title v)		Other (s below)	specify		
					. 4. 11	f Amer	ndmen	t, Date	of Origin	al File	d (Month/E	Day/Yea	r)	6.	Individual o	Joint/Group	Filing	(Check Ap	plicable
(Street)	IIS M	·O	63141											Lir	-,	filed by One	e Repo	orting Perso	n
51. LOU	115 IVI	.0	05141												Form Perso	filed by Mor	e thar	one Repo	rting
(City)	(S	tate)	(Zip)																
		Tab	le I - Nor	n-Deriv	ative	Sec	uriti	es Ac	cquired	, Dis	posed	of, or	Ben	eficia	lly Owne	d			
1. Title of Security (Instr. 3)  2. Transa Date (Month/D					Execution if any		cution Date,		3. Transaction Dispose Code (Instr. 8)		rities Acquired (A) ed Of (D) (Instr. 3, 4			d Securit Benefic Owned	Securities Beneficially Owned Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
								Cod	v	Amoun	Amount (A) or (D)		Price		nsaction(s) str. 3 and 4)			(Instr. 4)	
		Т									osed of				/ Owned				
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,	ate, Transaction				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	OI N Of	umber					
Phantom	(1)	02/20/2007			_		611		(2)	$\dashv$	(2)	Comm	on	G11	¢20.60	22.077		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

Date

\*\* Signature of Reporting Person

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).
- \*\* 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.