## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
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obligations may continue. See
Instruction 1(h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

				UI	Section	11 30(11	) OI LIN	e invesimen	COII	ipally Ac	1 01 1940							
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)						
PERKY	A MICE	HAEL		-									X	Direct	or		10% O	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 06/15/2011								Office below	r (give title )		Other (sbelow)	specify	
ONE CI	ITLACE	DRIVE		-													<i>'</i>	
				—   <sup>4.</sup>	If Ame	ndmen	t, Date	of Original	Filed	(Month/L	Day/Year)		6. Ind Line)	lividual or	Joint/Group	Filing	(Check Ap	plicable
(Street) ST. LOU	IIS M	10	63141										X	Form	filed by One	Repo	rting Perso	on
31. LUU	115 IVI	iU (	03141											Form	filed by Mor	e than	One Repo	rting
, a.v. s			·-· ›											Perso	n			
(City)	(S	tate) (	(Zip)															
		Tab	le I - Non-D	erivativ	e Sec	curiti	es A	cquired,	Dis	posed	of, or B	enefic	ially	Owne	d			
Date			Transaction te onth/Day/Y	Execution Date,		Code (I	Transaction Disposed Of (D) (Instr. 3, 2) Code (Instr. 5)			4 and Securiti Benefic		ies For ially (D) Following (I) (		orm: Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	v	Amount	nt (A) or (D)		ice		action(s)			(111341. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
			(e.g	J., puts,	calls	, war	rant	s, option	s, c	onverti	ble sec	uritie	s)					
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)	Code	Transaction Code (Instr.		vative vities vired r osed ) r. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		S (I	. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable		cpiration	Title	Amou or Numb of Share	er					
Phantom	(1)	00/45/004/					<u> </u>	(2)		(2)	Common	455	$\top$	***	20.455	$\dashv$		
Stock	(1)	06/15/2011	1	A	1	132	1	(2)		(2)	Stock	132	<u>'</u>	\$25.1	30,192	- 1	D	1

## **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"). 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. 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/ Robert G. Jones, Attorney-

06/16/2011

in-Fact

\*\* 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).
- \*\* 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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