PERRY A MICHAEL Form 4

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4	UNITED STATES SECURITIES AND EXCHANGE	OMB Number:	3235-0)287
•	COMMISSION Washington, D.C. 20549	Expires:	January 2	/ 31 2005
Check this box if no longer subject to Section 16.	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES	Estimated burden ho response.	urs per	0.5
Form 4 or Form 5 obligations may continue. See Instruction	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940			

1. Name and A	•	orting Person	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
PERRY A MICHAEL			ARCH COAL INC [ACI]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
ONE CITYPLACE DRIVE		IVE	(Month/Day/Year) 12/14/2012	X Director Officer (give title below)	10% Owner Other (specify below)		
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Pers			

ST. LOUIS, MO 63141			_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person
(City)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Ow

				•	• •		•
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities	5. Amount of	6.	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired (A) or	Securities	Ownership	Indirect
(Instr. 3)		any	Code	Disposed of (D)	Beneficially	Form:	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Direct (D)	Ownership
					Following	or Indirect	(Instr. 4)
				(A)	Reported	(I)	
				(A)	Transaction(s)	(Instr. 4)	
			C 1 W	or	(Instr. 3 and 4)		
			Code V	Amount (D) Price			

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

> Persons who respond to SEC 1474 the collection of (9-02)information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	omof	Expiration Date	Underlying Securities

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Derivative (Month/Day/Year) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Year)	(Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Phantom Stock	(1)	12/14/2012		A	156	(2)	(2)	Common Stock	156

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

PERRY A MICHAEL
ONE CITYPLACE DRIVE
X
ST. LOUIS, MO 63141

Signatures

/s/ Jon S. Ploetz, Attorney-in-Fact

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.