FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

1. Name and Address of Reporting Person* BOYD JAMES R				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										tionship all appl Direct	,				
(Last) (First) (Middle) ONECITYPLACE DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 12/14/2012										Office below	r (give title)		Other (s below)	specify		
(Street) ST. LOU (City)			63141 (Zip)		4. If	Ame	ndment	t, Date	of Origina	Filed	(Month/E	Day/Year)		5. Indiv Line) X	Form	filed by One	e Rep	g (Check Ap porting Perso In One Repo	n
(5.5)	(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date (Month/D				(Month/Da	ay/Yea	Execution Date,		Code 8)	Instr.	Amount (A) or (D)		or Price	and :e	Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			e.g., pu	4. Transaction Code (Instr.		5. Number of		6. Options, convert 6. Date Exercisable and Expiration Date (Month/Day/Year)				8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				С	ode	v	(A)	(D)	Date Exercisab		xpiration ate	Title	Amour or Number of Shares	r					
Phantom Stock	(1)	12/14/2012			Α		498		(2)		(2)	Common Stock	498	\$	57.66	127,588	3	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"). 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/ Jon S. Ploetz, Attorney-in-

Fact

** Signature of Reporting Person Date

12/18/2012

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.

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