FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

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]								(Cr	5. Relationship of Reporting Person(s) (Check all applicable) X Director 10			son(s) to Is		
(Last) (First) (Middle) ONECITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 09/30/2011										Office below	er (give title /)		Other (below)	specify
(Street) ST. LOUIS MO 63141					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Lin	e) X Form Form						
(City)	(S	tate) ((Zip)																	
		Tab	le I - Non	-Deriv	ative	Sec	curitie	s Ac	qui	ired, D	isp	osed o	of, or	Ben	eficial	ly Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,		e, Transaction Dispos Code (Instr. 5)		Dispose	rities Acquired (A) ed Of (D) (Instr. 3,			Benefic	ially (D) (Following (I) (I		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
										Code	V Amount		(A) or (D)		Price	Transa	Transaction(s) Instr. 3 and 4)			(111511.4)
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemee Execution I if any (Month/Day	Date,	4. Transa Code (1 8)				6. Date Exercisal Expiration Date (Month/Day/Year		Amount of			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				,	Code	v	(A)	(D)	Date Exe	e ercisable	Ex Da	piration ite	Title	N O	mount r lumber f hares					
Phantom	(1)	00/20/2011		- 1			2.015	1	1	(2)	1	(2)	Comn	ion	0.015	01450	104.40	_	ь.	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") 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 amounts held in the phantom stock account into an alternative investment account at any time.

Remarks:

Stock

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

Fact ** Signature of Reporting Person

Date

10/04/2011

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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