FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

TATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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l	hours per response:	0.5

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

								01 1110	HIVESUITETIL		ipariy 7 to	01 1540							
1. Name and Address of Reporting Person* BOYD JAMES R				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
					<u> </u>									Oirect	or		10% O	wner	
(Last) (First) (Middle) ONECITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 09/14/2012										Office below	r (give title)		Other (below)	specify	
ONLETT TENCE DRIVE				A 16 Assessed assess Data of Opinion I Filed (Adoptin ID 1977)									6 Individual or Joint/Group Filing (Chock Applicable						
(Street) ST. LOUIS MO 63141				4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	5. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(Si	tate) ((Zip)												Perso		e illa	п Опе керс	orung
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execu			n Date	Code (In	Transaction Dispose Code (Instr. 5)		rities Acquired (A) ed Of (D) (Instr. 3,		and Securit Benefic Owned		es ially Following	Form (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	V Amount		(A) (D)	or Pi	rice	Reporte Transac (Instr. 3	ction(s)			
	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. Deemed Execution Date if any (Month/Day/Yea	ate, Ti	4. Transactic Code (Inst				6. Date Exerc Expiration D (Month/Day/		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	Ownership	Beneficial Ownership tt (Instr. 4)	
				С	ode	v	(A)	(D)	Date Exercisable	Ex Da	piration te	Title	Amou or Numl of Share	oer					
Phantom Stock	(1)	09/14/2012			A		455		(2)		(2)	Common Stock	45	5	\$7.91	120,346		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-

09/17/2012

Fact

** Signature of Reporting Person

Date

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.

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.