FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C.	20549
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STATEMENT	OF CHANG	ES IN BENE	FICIAL (OWNERSHIP
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OMB APPRO	DVAL
OMB Number:	3235-0287
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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 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]							(Che	elationship eck all appli	cable)	g Per	son(s) to Iss		
(Last)	(Fi	,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 12/31/2012								Officer below)	(give title		Other (s below)	specify	
(Street) ST. LOU (City)		tate) (53141 Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person								n					
		Tabl	e I - Non	-Deriv	ative	Sec	curities	s Ac	quired, I	Disp					y Owned				
1. Title of Security (Instr. 3) 2. Transa: Date (Month/D				Execution Date,			Code (Instr. 5)			or 4 and	5. Amou Securitie Benefici Owned I Reporte	es Form ally (D) o Following (I) (Ir		n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code	V	Amount	(A) or Pr		rice	Transac (Instr. 3	ction(s)			(
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
				Transa Code (I	ransaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) 7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)			of S g Secu	8. Price of Derivative Security (Instr. 5)				10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				(Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amo or Num of Shar	ber					
Phantom Stock	(1)	12/31/2012			Α		2,049		(2)		(2)	Common Stock	2,0	49	\$7.32	66,191		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") 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:

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

Fact

** Signature of Reporting Person Date

01/03/2013

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.