FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C. 20549
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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).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Freudenthal David D.				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]											5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
rreude	nunai Day	<u>nu D.</u>									_				:	X Direct	or		10% O	wner
	ΓΥΡLACE	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 06/28/2013											Office below	r (give title)		Other (below)	specify
SUITE 3	00				4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Application)								pplicable							
(Street)																X Form	filed by One	Repo	orting Perso	on
ST. LOU	TIS M	0	63141													Form Perso	filed by More	e thar	n One Repo	orting
(City)	(S	tate) ((Zip)																	
		Tab	le I - Non-I	Deriva	tive	Sec	uritie	s Ac	quire	d, D	isp	osed o	of, or E	ene	ficial	ly Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Executio ay/Year) if any			ution Date,		r, Transaction Disposed Of (Code (Instr. 5)			ties Acquired (A) I Of (D) (Instr. 3, 4			Benefic	es Formially (D) Following (I) (I			7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code V Amount (A) or Pr							Price	Transac	Transaction(s) (Instr. 3 and 4)			(111501.4)		
	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. Deemed Execution Da if any (Month/Day/Y	Co	ransaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable an Expiration Date (Month/Day/Year)				7. Title a Amount Securiti Underly Derivati (Instr. 3	of es ing /e Sed		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Co	ode	v	(A)	(D)	Date Exerci	sable	Ex Da	piration ite	Title	or Nu of	ımber					
Phantom Stock	(1)	06/28/2013			A		3,968		(2)		(2)	Commo	3,	,968	\$3.78	20,179		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

07/01/2013

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.