## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

ı	OMB APPRO	VAL
	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*  Freudenthal David D.				2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]									Check all	I appli Direct	or	g Per	10% O	wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300				3. Date of Earliest Transaction (Month/Day/Year) 03/14/2014										Officer (give title below)			Other ( below)	specify	
(Street)		0 (	53141		4. If <i>A</i>	Ameno	dment	, Date	of Original F	iled	(Month/D	oay/Year)		ne) X I	Form	Joint/Group filed by One filed by Mor n	Rep	orting Perso	on
(City)	(SI		Zip) le I - Non-	Deriva	tive :	Secu	uritie	es Ac	quired, D	—— Disp	osed (	of, or Be	eneficia	ally O	wne	d			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				Execution Date			Code (In 8)		r. 5) (A) or			and Securiti Benefic Owned Reporte Transac		ies Fori cially (D) ( Following (I) (I ed ction(s)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 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 Date, if any (Month/Day/Year	ate, Tr	4. Transaction Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price Derivati Security (Instr. 5			y Di or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	ode V	,	(A)	(D)	Date Exercisable	Ex Da	piration te	Title	Amount or Number of Shares	ber					
Phantom Stock	(1)	03/14/2014			A		66		(2)		(2)	Common Stock	66	\$4.3	16	27,568		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 certain portions of 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

03/18/2014

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.