FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	D.C.	20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPR	OVAL						
OMB Number:	3235-0287						
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* HANRAHAN PAUL T				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									heck all		,	g Per	10% O	vner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 09/13/2013										fficer elow)	(give title		Other (below)	specify
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					n
(City)	(SI		Zip)																
			e I - Non-I			_						-							
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					Execu			n Date	e, Transaction Dispose Code (Instr. 5)		urities Acquired (A) sed Of (D) (Instr. 3,		4 and Securi		ies Fo cially (D Following (I)		Ownership orm: Direct O) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code V Amount (A) or (D)			Price	Tra	Transaction(s) (Instr. 3 and 4)				(1115411 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	Transaction Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price Derivat Securit (Instr. §	ive y	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	Own Forn Direc or In (I) (Ir	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	ode V	,	(A)	(D)	Date Exercisable	Exp Date	oiration e	Title	Amount or Number of Shares						
Phantom Stock	(1)	09/13/2013			A		195		(2)		(2)	Common Stock	195	\$4.6		30,620		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

09/17/2013

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.