FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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	OMB APPROVAL				

OMB Number: 3235-0287
Estimated average burden 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 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]								Relationship neck all appli X Director	•	erson(s) to Is	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300				3. Date of Earliest Transaction (Month/Day/Year) 06/28/2013								Officer below	(give title	Other (below)	specify	
(Street) ST. LOUIS MO 63141					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			
(City)	(S	tate) ((Zip)													
		Tab	le I - Non-	Deriva	ative	Sec	uritie	s Ac	quired, D	isposed	of, or Be	neficia	lly Owne	t .		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date			Date	Code (Instr. 5)			str. 3, 4 and	Benefic Owned Reporte	s Form (D) collowing	Ownership orm: Direct) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	Amoun	(A) o	Price	Transac (Instr. 3			
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, T	4. Transaction Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				c	Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	(1)	06/28/2013			Α		5,787		(2)	(2)	Common Stock	5,787	\$3.78	30,425	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 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

<u>07/01/2013</u> 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.