FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL							
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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* <u>HANRAHAN PAUL T</u>						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]							of Reporting licable) or	Person(s) to Is:		
ONE CITYPLACE DRIVE SUITE 300				12	3. Date of Earliest Transaction (Month/Day/Year) 12/14/2012							below	,	Other (below)		
(Street) ST. LOU (City)			53141 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							ne) X Form Form	´			
	`		le I - Non-De	erivativ	e Sec	curition	es Ad	cquired, D	isposed	of, or Be	eneficia	lly Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,				rities Acquired (A) ed Of (D) (Instr. 3, 4 t (A) or Pri		Benefic Owned Reporte	ies F cially (I Following (I ed ction(s)	orm: Direct	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)	Execution Date, if any	Code	Fransaction of Code (Instr. 3) Se Ac (A) Dis		osed) r. 3, 4	Expiration D	. Date Exercisable and :xpiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Phantom Stock	(1)	12/14/2012		A		63		(2)	(2)	Common Stock	63	\$7.66	16,067	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

12/18/2012

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.

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