FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [D.C.	20549
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OMB APPROVAL OMB Number: 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]										neck all ap	ip of Reporti plicable) ector	ing Pe	rson(s) to Is		
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 12/13/2013										Offi bel	cer (give title ow)		Other (below)	specify	
SUITE 300						4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable					
(Street) ST. LOU	IS M	0	63141												Lin	X For	Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(Si	tate) ((Zip)																		
		Tab	le I - Non	-Deriv	ative	Sec	uritie	es Ac	qui	red, D	isp	osed	of, or	Ben	eficia	lly Owr	ed				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date			Code (Instr. 5)						d Secu Bene Own	Securities F Beneficially (wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
										Code	/	Amount	ount (A) or (D)		Price	Trans	nsaction(s) tr. 3 and 4)			(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 I if any (Month/Day	Date, 1	ransaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expir	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivativ Security (Instr. 5)		e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	Code	v	(A)	(D)	Date Exerc	e cisable	Ex _I	piration te	Title	0 0	amount or lumber of Shares						
Phantom Stock	(1)	12/13/2013			A		260			(2)		(2)	Commo		260	\$4.15	36,20	2	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

12/17/2013

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.