FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

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* BESTEN C HENRY JR						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										neck all ap Dire	' '	ng Pe	rson(s) to Iss 10% O	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300					3. Date of Earliest Transaction (Month/Day/Year) 12/15/2008											A belo		Strate	below)	эрсону
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. I Lin	e) X For For	,				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Da			e, 7	3. Transact Code (In 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 1) 5)			d Secu Bene	ties Fo cially (D I Following (I)		Ownership orm: Direct O) or Indirect) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										Code	,	Amount	nt (A) or (D)		Price	Trans	action(s) 3 and 4)			(111511.4)
	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/\)	ate, Tr	ransac ode (li		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisal Expiration Date (Month/Day/Year)			Amount of			8. Price of Derivative Security (Instr. 5)		ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				C	ode	v	(A)	(D)	Date Exer			piration te	Title	0 N 0	amount or lumber of Shares					
Phantom Stock	(1)	12/15/2008			I		60			(2)		(2)	Comm		60	\$15.56 ⁽¹⁾	12,385	5	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 executive officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan"). The shares of phantom stock acquired by the executive officer represent dividends attributable to amounts that the executive officer 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 on the date or dates elected by the executive officer, subject to the terms of the Plan. The executive officer may transfer any and all of the phantom stock account into an alternative investment account at any time.

Remarks:

/s/ Gregory A. Billhartz, 12/16/2008 Attorney-in-Fact

** Signature of Reporting Person 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.