## FORM 4

obligations may continue. See

Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: 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*  BESTEN C HENRY JR					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]									Check a	ll appl Direct	,	g Pers	son(s) to Iss 10% O Other (s	vner
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300			3. Date of Earliest Transaction (Month/Day/Year) 03/15/2007										below			below)	эрсспу		
(Street) ST. LOUIS MO 63141			4. If Amendment, Date of Original Filed (Month/Day/Year)									ine)	′						
(City) (State) (Zip)  Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				2A. Deemed Execution Date,			3. Transact Code (In: 8)	ion str.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)  Amount (A) or (D) (D)			nd S	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Form:	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)		.g., pu			5. Number of		6. Options, convert 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 Derivative Security (Instr. 5)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,   G	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Co	ode	v	(A)	(D)	Date Exercisable	Exp Date	oiration te	Title	Number of Shares						
Phantom Stock	(1)	03/15/2007			A		14		(2)		(2)	Common Stock	14	\$3	0.2	7,262		D	

- 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, 03/19/2007 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.