FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to	STATEMENT OF C
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	Filed pursuant to \$

HANGES 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]									(Che	ck all appli Direct	tionship of Reporting all applicable) Director Officer (give title		g Person(s) to Issuer 10% Owner Other (specif	
(Last) ONE CIT	ΓΥΡLACE	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 04/26/2007							- X	below) Se	nior VP-S	below) Strategic Dev.				
(Street) ST. LOU			63141		. 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line)	Individual or Joint/Group Filing (Check Applicable le) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(5		(Zip)	n Doriv	rotive		ourit	ioo Ao	auirod	Die	nocod	of or B	onot	ficially	, Owns				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		ar) if	2A. Deemed Execution Date,		Transaction Dispo		4. Secur Dispose	ities Acqu d Of (D) (I	ired (A	A) or	5. Amou Securiti Benefic Owned	unt of es ially Following	Form:	: Direct · Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) (D)	or F	Price	Transac	Reported Transaction(s) (Instr. 3 and 4)		1		
Common	on Stock 04			04/27	7/2007				I		29	Ι) :	\$37.22	0			I	By 401(k) plan
Common Stock													24,745			D			
		7	able II -								osed of converti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transaction Code (Instr. 8)		n of l		6. Date E Expiratio (Month/D	n Date	•	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		urity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e (10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nu of	ount mber ares					
Phantom	(1)	04/26/2007			I			7,262	(2)		(2)	Common	ı _{7.}	262	(1)	0		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"). This report reflects the transfer of \$273,922 from a hypothetical investment in shares of Arch Coal, Inc. common stock to an alternative investment account.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact

04/30/2007

Date

** Signature of Reporting Person

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.

^{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.