FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

				UI JECI	1011 30(11) 01 1116 1111	Council	COIII	ipariy Act of 13	740					
L. Name and Address of Reporting Person*  BESTEN C HENRY JR				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]							ationship of Reportir k all applicable) Director Officer (give title	g Person(s) to Issuer  10% Owner Other (specify		
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300					of Earliest Transac 2008	tion (M	onth/C	ay/Year)	X	below)	below Strategic Dev.	)``		
					endment, Date of 0	Original	Filed	(Month/Day/Ye		6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) ST. LOUIS	MO	63141									Form filed by One Reporting Person  Form filed by More than One Reporting  Person			
(City)	(State)	(Zip)												
		Table I - No	n-Derivat	ive Se	ecurities Acqu	ıired,	Disp	osed of, o	r Ben	eficially	Owned			
Date			ansaction th/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities of Disposed Of (5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
					Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

M

M

767

1,600

(1)

(2)

A

A

29,242

30,842

D

D

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		tion of		6. Date Exerc Expiration Da (Month/Day/\)	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	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				
Restricted Stock Units	(3)	02/25/2008		M			767	(4)	(5)	Common Stock	767	(1)	766	D	
Restricted Stock Units	(3)	02/25/2008		M			1,600	(6)	(5)	Common Stock	1,600	(2)	0	D	

### **Explanation of Responses:**

Common Stock

Common Stock

- 1. The reporting person received 2,300 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. On February 25, 2008, the reporting person received 767 shares of common stock.
- 2. The reporting person received 4,800 restricted stock units on February 24, 2005. The restricted stock units vest ratably over a three-year period. On February 25, 2008, the reporting person received 1,600
- 3. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred
- 4. The reporting person received 2,300 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. On February 25, 2008, 767 restricted stock units vested.
- 5. The restricted stock units do not expire.
- 6. The reporting person received 4,800 restricted stock units on February 24, 2005. The restricted stock units vest ratably over a three-year period. On February 25, 2008, 1,600 restricted stock units vested.

## Remarks:

/s/ Gregory A. Billhartz, 02/27/2008 Attorney-in-Fact

\*\* 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).

02/25/2008

02/25/2008

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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