FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	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]										Relationship neck all appli Directo	cable) or	ng Per	son(s) to Iss 10% Ov Other (s	vner
(Last) ONE CIT	(Fi FYPLACE		Date (est Tran	ısact	tion (Mo	nth/E	ay/Year)		helow)	er (give title v) enior VP-Strat		below)	респ у					
(Street) ST. LOU (City)		_ 4. II	f Ame	endmer	nt, Date	of O	Original F	Filed	(Month/Da	Lin	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person									
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da							2A. Deemed Execution Date, if any		,	3. 4. Sec Transaction Code (Instr. 5)			urities Acquired (A) sed Of (D) (Instr. 3, 4			5. Amou Securitie Benefici	nt of	Form (D) o	n: Direct r Indirect	7. Nature of Indirect Beneficial Ownership
				(Month/Day/Year)		´ -	8) Code	v	Amount	(1	A) or D)	Price	Reporte Transac (Instr. 3	d tion(s)			(Instr. 4)			
Common	Stock ⁽¹⁾		1/2008	2008				M		7,025	5	A	\$9.0	8 35	5,500		D			
Common Stock ⁽¹⁾ 02/11/.										S		7,025	5	D	\$53	28	3,475		D	
		7										sed of, onverti				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/Da	Date,		Transaction Code (Instr.		n of		Date Exer piration I ponth/Day	Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	s B Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				С	Code	v	(A)	(D)	Date Exe	te ercisable		xpiration ate	Title	1	Amount or Number of Shares					
Employee stock options (right to	\$9.08	02/11/2008			M			7,025		(2)	02	2/29/2012	Comn		7,025	\$0.00	7,025		D	

Explanation of Responses:

- 1. The exercise of employee stock options and sale of underlying shares of common stock by the executive officer reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan.
- 2. The reporting person received 56,200 stock options on February 28, 2002. The stock options vested ratably over a four year period as follows: 14,050 stock options vested on February 28, 2003; 14,050 stock options vested on February 28, 2005; and 14,050 stock options vested on February 28, 2006.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-fact 02/12/2008

** 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.