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

Washington,	D.C.	20549

STATEMENT OF CHANGES IN BENEFICIA	L 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* MESSEY ROBERT J						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]											k all applic Directo	onship of Reporting all applicable) Director		10% Ov	vner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/04/2008										X	Officer (give title below) Senior Vice Pres			Other (s below) ent & CFC	·	
(Street) ST. LOU (City)			63141 (Zip)		4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tab	le I - Nor	n-Deriv	/ative	e Se	curit	ies A	cqu	uired,	Disp	oosed c	of, o	r Ber	neficia	ally	Owned	<u> </u>				
- This or essuanty (mean sy		2. Transaction Date (Month/Day/Year)		ar)	2A. Deemed Execution Date, if any (Month/Day/Year)		·	Code (Instr.		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)		ed (A) or tr. 3, 4 a	nd	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	mount (A)		Price)	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common Stock ⁽¹⁾			02/04	2/04/2008					M		8,300	0	A	\$9.	.08	46,	,388		D			
Common	mmon Stock ⁽¹⁾			02/04	/04/2008					S		8,300	0	D	\$49	\$49.8		38,088		D		
Common Stock																	1,083			Ι .	By 401(k) plan	
		٦	able II -									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. Deemed Execution D if any (Month/Day/	Date,	4. Transa Code (8)		ı of		Ex	Date Exe opiration onth/Day	Date	Amount of		I Security		. Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Da Ex	ate kercisabl		opiration	Title		Amoun or Numbe of Shares	r						
Employee stock options (right to	\$9.08	02/04/2008			M			8,300		(2)	02	2/29/2012		nmon ock	8,300		\$0.00	8,824		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 68,500 stock options on February 28, 2002. The stock options vested ratably over a four year period as follows: 17,125 stock options vested on February 28, 2003; 17,125 stock options vested on February 29, 2004; 17,125 stock options vested on February 28, 2005; and 17,125 stock options vested on February 28, 2006.

Remarks:

/s/ Gregory A. Billhartz, 02/06/2008 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.