Instruction 1(b).

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP
Section 16. Form 4 or Form 5		
obligations may continue. See		

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]								neck all a D	applica rector	or		10% Ov	ner
(Last)		3. Date of Earliest Transaction (Month/Day/Year) 02/21/2008								^ be	Officer (give title below) Senior Vice Presi		reside	Other (s below) ent & CFC	·			
(Street) ST. LOU (City)			63141 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Lin	Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - Non-D	Derivativ	re Se	curities	s Ac	quired, D	isp	osed o	f, or Be	neficial	ly Ow	ned				
Date			Transactio ate Ionth/Day/\	Execution Date,		Transaction Disposed Code (Instr. 5)		ities Acquired (A) or d Of (D) (Instr. 3, 4 aı		or 5. Amou Securitie Beneficia Owned F Reported		ly	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code V	,	Amount	(A) or (D)	Price	Transact		tion(s)			,
		-	Гable II - De (e.					uired, Dis , options					Own	ed		,	,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	cise (Month/Day/Year) ve	3A. Deemed Execution Date if any (Month/Day/Yea	Code	action (Instr.			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e S Illy	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable		piration ate	Title	Amount or Number of Shares						
Employee Stock Options (right to	\$52.69	02/21/2008		A		52,450		(1)	02	//21/2018	Common Stock	52,450	\$0.0	0	52,450	0	D	

Explanation of Responses:

1. The option vests in three equal annual installments beginning on February 21, 2009.

Remarks:

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

02/25/2008

** 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.