FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

CHANGES 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 MESSEY ROBERT J						ARCH COAL INC [ACI]									k all applic Directo	r 10% Ow		ner	
(Last)	(F	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/30/2005								X	Officer (give title Other (specify below) Senior Vice President & CFO				´
(Street) ST. LOU (City)		tate)	63141 (Zip)		-	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable) 【 Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - No	n-Deri	vativ	e Se	curit	ties Ac	quired,	Dis	posed o	f, or Be	nefic	ially	Owned				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Code	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Pric	e	Reported Transact (Instr. 3	ion(s)			Instr. 4)
Common Stock 08/				08/3	0/200)/2005					17,12	5 A	\$1	8.15		0		D	
Common Stock 08/3				08/3	0/200	/2005		S		17,12	5 A	1	63	2,300			D		
		-	Table II -						,		,	or Bend ble secu		•	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,		ansaction de (Instr.		of I		6. Date Exercisa Expiration Date (Month/Day/Yea		7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)		S	. Price of Perivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	es ally g d	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amor or Numl of Share	per					
Employee Stock	\$18.15	08/30/2005			M			17,125	(1)	(02/29/2012	Common Stock	17,1	25	\$18.15	8,562		D	

Explanation of Responses:

1. 8,563 shares vested on 2/29/2004 and 8,562 shares vested on 2/28/2005.

Remarks:

/s/ Janet L. Horgan, Attorney-

08/31/2005

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.