FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20549

STATEMENT O	F CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burd	en
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* Lang Paul A					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									ationship of Reporting all applicable) Director Officer (give title		g Pers	10% Owner Other (specify		
(Last) ONE CIT SUITE 3	ΓΥ PLACE	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 06/03/2008										Senior VP - Operations				
(Street) ST. LOU (City)			63141 (Zip)		_ 4. li	f Ame	ndmer	nt, Date	of Origina	l Filed	(Month/D	ay/Year)		6. Ind Line) X	Form t	filed by One	e Repo	g (Check Ap orting Perso n One Repo	n
		Tab	le I - No	n-Deri\	/ative	e Se	curiti	ies Ac	quired	Dis	posed o	of, or B	enefi	cially	Owned	t c			
1. Title of Security (Instr. 3) 2. Tra			2. Trans Date (Month/	Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. 4 Transaction Code (Instr. 5		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				5. Amou Securiti Benefici Owned	es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	Pr Pr	ice	Transac (Instr. 3	tion(s)			(Instr. 4)
				06/03	3/2008	/2008			М		5,000) A	\$	32.99	30,734 25,734		D D		
				06/03	3/2008				М		5,000) [\$70					
		٦	able II -								osed 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. Deem Execution if any (Month/Da	Date,		ransaction ode (Instr.		n of l		6. Date Exercisa Expiration Date (Month/Day/Year		Amount Securitie Underlyi Derivativ	Title and mount of ecurities nderlying erivative Security nstr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		xpiration ate	Title	Amo or Num of Sha	ber					
Employee Stock	\$32.99	06/03/2008			M			5,000	(2)	0	2/22/2017	Commor Stock	5,0	00	\$0.00	56,750)	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 61,750 stock options on February 22, 2007. The stock options vest ratably over a three year period as follows: 20,584 stock options vested on February 22, 2008; 20,583 stock options vest on February 22, 2009; and 20,583 stock options vest on February 22, 2010.

Remarks:

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

06/04/2008

** 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.