FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-028								
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0.5

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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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

1. Name and Address of Reporting Person*  BOYD JAMES R				2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]												p of Reportin blicable) ctor	g Perso	on(s) to Is		
(Last)	(Fir	,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/06/2008										Offic belov	er (give title v)		Other (spec below)	
(Street) ST. LOU			53141 Zip)		4. If A	Line)										or Joint/Group Filing (Check Applicable In filed by One Reporting Person In filed by More than One Reporting Ison				
		Tabl	e I - Nor	n-Deriv	ative S	Secu	ıritie	s Acc	quired,	Dis	posed o	f, o	r Ben	efic	ially	Owne	ed			
			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. ) 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)					Securi Benefi Owner	i. Amount of Securities Beneficially Dwned Following		ership Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount		(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common stock				08/06/2008					A		2,000		A	\$50		69,372		D		
Common stock				08/06/2008					A		1,609		A	\$50.01		70,981		D		
Common stock				08/06/2008					A		400		A	\$50.02		71,381		D		
Common stock 08/				08/06	/06/2008				A		697		A	\$50.03		72,078		D		
		Та									sed of, onvertib					wned				
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,	Code (Ins				6. Date E Expiratio (Month/D	n Date	•	7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)			Deri Seci (Inst	Price of erivative ecurity istr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction( (Instr. 4)	Ow For Dir or I (I) (	nership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	,	(Δ)		Date Evercisa	ble	Expiration	Titl	Nur of	nber						

Explanation of Responses:

Remarks:

<u>/s/ Gregory A. Billhartz</u> <u>Attorney-in-fact</u>

08/08/2008

\*\* Signature of Reporting Person Date

 $Reminder: Report \ on \ a \ separate \ line \ for \ each \ class \ of \ securities \ beneficially \ owned \ directly \ or \ indirectly.$ 

- $^{\star}$  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.