FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Moyer James C						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner Officer (give title Other (specify						
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 08/13/2008								X belo		belo Design Engine		ow)				
(Street) SAN JOSE (City)		CA 95120 (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applic Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I -	Non-Deriva	ative \$	Seci	urities A	Acquire	d, D	isposed o	f, or B	Benefi	cia	lly Own	ed						
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Ye	ear) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transac Code (I 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			4 Securities Beneficially Owned			6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) or (D)	Price		Followin Reported Transact (Instr. 3	ion(s)	(Instr.	. 4)	(Instr. 4)			
Common S	Stock			08/13/200	8			S ⁽¹⁾		583	D	\$27	'.5	14,0	077		I	by Moyo FamilyT			
Common S	Stock			08/13/200	8			S ⁽¹⁾		110	D	\$27.	.51	13,9	967		I	by Moye FamilyT			
Common S	Stock			08/13/200	8			S ⁽¹⁾		150	D	\$27	.6	13,8	817		I	by Moyo FamilyT			
Common S	Stock			08/13/200	8			S ⁽¹⁾		7	D	\$27.	.62	13,8	810		I	by Moye FamilyT			
Common Stock			08/13/2008				S ⁽¹⁾	S ⁽¹⁾		D	\$27.65		13,710		I		by Moyer FamilyTrust				
Common S	Stock													890,	569		D				
Common Stock													518,	,504		I	By Joint w/Spous	-			
		Та	ble	II - Derivati (e.g., pu						posed of, convertib				Owned	I						
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date,	4. Transaction Code (Instr. 8)		5. Numb of Derivative Securitie Acquire (A) or Dispose of (D) (Instr. 3, and 5)	6. Date Exe Expiration (Month/Day		ercisable and Date				8. Price of Derivative Security (Instr. 5)	9. Numl derivati Securiti Benefic Owned Followi Reporte Transac (Instr. 4	ve ies ially ng ed ction(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Benefi Owner ect (Instr.	lirect icial rship		
					Code	v	(A) (D	Date) Exerc	cisabl	Expiration e Date	Title	Amou or Numb of Shares	er								

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

By: Adriana Chiocchi For: James Moyer

08/14/2008

** Signature of Reporting Person Date

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

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.

 $^{^{\}star}$ 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).