FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average burden							
nours 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).

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								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD (Street) SAN JOSE CA 95120 (City) (State) (Zip)					3. Da	[MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 09/27/2007									er (give w) Chief IC			,	
					4. If #	Line) X Form filed by												Group Filing (Check Applicable y One Reporting Person y More than One Reporting	
		Tabl	eI-	Non-Deriva	ative	Secı	ırities <i>l</i>	cquire	d, D	isposed o	of, or E	Benefic	cia	lly Own	ed				
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Ye	2A. Deemed Execution Date, if any (Month/Day/Year)		on Date,	3. Transa Code (I 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)			4 Securities Beneficially Owned		s ally	Form: D (D) or Indirect	: Direct	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common	Stock			09/27/200	7			S ⁽¹⁾		200	D	\$25.0	69	288,	,010		I	by Moyer FamilyTrus	
Common	Stock			09/27/200	7			S ⁽¹⁾		200	D	\$25.	.7	287,	810		I	by Moyer FamilyTrus	
Common	Stock			09/27/200	7			S ⁽¹⁾		200	D	\$25.	71	287,	,610		I	by Moyer FamilyTrus	
Common	Stock			09/27/200	7			S ⁽¹⁾		100	D	\$25.	72	287,	510		I	by Moyer FamilyTrus	
Common	Stock			09/27/200	7			S ⁽¹⁾		100	D	\$25.	74	287,	410		I	by Moyer FamilyTrus	
Common	Stock			09/27/200	7			S ⁽¹⁾		100	D	\$25.	75	287,	310		I	by Moyer FamilyTrus	
Common	Stock													890,	569		D		
Common	Stock													518,	504		I	By Jointly w/Spouse	
		Та	ble	II - Derivati (e.g., pu						posed of, convertib				Owned	l				
1. Title of Derivative Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/Year)	Exec if an	cution Date,	4. Transa Code (l 8)			er 6. Date Exe Expiration (Month/Day		Date			8. Price of Derivativ Security (Instr. 5)		Benefic Owned Following Reports	ive ies cially ing ed ction(s)	10. Owners Form: Direct (I or Indir (I) (Instr 4)	Beneficial O) Ownership ect (Instr. 4)	
					Code	v	(A) (D	Date) Exer	cisabl	Expiration e Date	Title	Amour or Number of Shares	er						

Explanation of Responses:

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

By: Rick Neely For: James Moyer

09/28/2007

** 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.