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

1. Name and Address of Reporting Person* Moyer James C (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					MC [M	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 08/03/2007								is. Relationship of Reporting Person(s) to Issuer Check all applicable) X Director 10% Owner X Officer (give title below) below) Chief IC Design Engineer				
(Street) SAN JOS (City)	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person								
Table I - Non-Derive 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y					on Year)	n 2A. Deemed Execution Date,					es Acquired (A) or Of (D) (Instr. 3, 4		5. Amount of Securities Beneficially Owned		Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock ⁽¹⁾ 08/03			08/03/20	07	07			A		9,500	(D)	\$0	(Instr. 3 an		D			
Common Stock													518,5	04	I		By Jointly w/Spouse	
Common Stock														326,0)94 I		by Moyer FamilyTrus	
			Tal	ble II - Deri (e.g.							osed of, o onvertible			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		Code	5. Num of Olivery Oliv		tive ties ed	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Owners Form: Direct (or Indi (I) (Inst 4)	Beneficia Ownershi ect (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amour or Numbe of Shares					
Non- Qualified Stock Option (right to buy)	\$18.77	08/03/2007			A		20,000		08/03/20	009 ⁽²⁾	08/03/2014	Common Stock	20,000	\$18.77	20,	,000	D	

Explanation of Responses:

- 1. 50% of the Performance Units are subject to vest on the first anniversay of the Grant Date and 50% of the Performance Units are subject to vest on the second anniversary of the Grant Date, provide that the Grantee continues to be a service provider on such dates.
- 2. Fifty percent (50%) of the Shares subject to the Option shall vest twenty-four (24) months after the Grant Date, and 1/48 of the Shares subject to the Option shall vest monthly thereafter on the same day of the month as the Grant Date, subject to the Optione continuing to be a Service Provider on such dates.

<u>James Moyer</u> <u>08/07/2007</u>
** 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.