FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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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) 79 GREAT OAKS BLVD				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 05/14/2013										5. Relationship of Repo (Check all applicable) X Director Officer (give till below)			10% C		% O	
(Street) SAN JOS	E CA	9	5119 (ip)	If Amendment, Date of Original Filed (Month/Day/Year)								· /	Line	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Table	e I - Non-Deriv	ative S	ecu	rities	s Acq	ıiu	red, [Dispos	ed o	f, o	r Benefic	ial	ly Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		ate, Tran				4. Securities Acquire Disposed Of (D) (Inst					5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
							Code		v A	Amount (A) or (D)		Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common Stock			05/14/2013				S ⁽¹⁾			1,600	1,600 I		\$24.4313(2)		429,283		I		by Moyer FamilyTrust	
Common Stock			05/15/2013				S ⁽¹⁾			1,600		D	\$24.4575(3)		427,683		I		by Moyer FamilyTrust	
Common Stock														1,006,301		5,301	D			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
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)	4. Transact Code (In 8)		5. Number of Expira of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) Date				te Exercisable and ation Date th/Day/Year) Expiration cisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amoun or Numboof Title Shares		3. Price of Derivative Security Instr. 5)	derivativ ative Securitie ity Benefici		10. Ownersh Form: Direct (I or Indire (I) (Instr. 4)	nip D) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan. $\label{eq:person}$
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$24.225 to \$24.57. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$24.41 to \$24.52. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Meera Rao For: Jim Moyer 05/16/2013

** 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.