FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number: 3235-028									
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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) 10/31/2012									5. Relationship of Repo (Check all applicable) X Director Officer (give tit below)			10% (% Ov		
(Street) SAN JOS (City)	E CA	9	5119 ip)	4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)									Line	Individual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person					on
		Table	e I - Non-Deriv	ative S	ecu	rities	s Acq	Jui	red, [Disp	posed o	f, o	r Benef	icial	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,		Transaction Code (Instr.		4. Securities Acqui Disposed Of (D) (In					5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code		v	Amo	unt (A Or (D		Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(ins	tr. 4)	
Common Stock			10/31/2012				S ⁽¹⁾			6	00	D	\$19.4067(2)		465,283		I		by Moyer FamilyTrust	
Common Stock			11/01/2012				S ⁽¹⁾			6	00	D	\$19.5384(3)		464,683		I		by Moyer FamilyTrust	
Common Stock															1,006,990		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. Nu of Deriv Securi Acqu (A) or Dispo of (D) (Instrand 5	rities ired sed	Exp (Md	piratioi onth/D	Exercisable and ion Date		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amoun or Numboof Title Shares		int	3. Price of Derivative Security Instr. 5)	derivative Securities by Beneficially		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 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 \$19.20 to \$19.45. 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 \$19.39 to \$19.85. 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: Saira Tseng For: James Moyer 11/01/2012

** 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.