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) 09/16/2013											all app	er (give title		Person(s) to Is: 10% Ow Other (s below)		wner
(Street) SAN JOS (City)	4. If Ar	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-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of §	Security (Ins	2. Transaction Date (Month/Day/Year)	2A. Dec Executi if any (Month	ate,	3. Transaction Code (Instr. 8)			4. Securities Acquired Disposed Of (D) (Instr.						5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
						Code		v	Amount c		A) r O)	Price		Re	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Insi	tr. 4)	
Common	Stock	09/16/2013				S ⁽¹⁾			8,500 I		D	\$30.3648(2)		325,783		I		by Moyer FamilyTrust			
Common	Stock	09/17/2013				S ⁽¹⁾			8,500		D	\$30.5361(3)		317,283		283	I		by Moyer FamilyTrust		
Common													1,006,301		,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. Transaci Code (In 8)		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instrand 5	ative rities ired bsed	Exp (Me	pirationth/i	Expiration able Date		Am Sec Un De Sec 3 a	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Shares		8. Pr of Deriv Secu (Inst	vative irity	9. Numb derivativ Securitie Benefici Owned Followin Reportet Transact (Instr. 4)	re es ally ig d tion(s)	Owners Form: Direct (I or Indir (I) (Instr		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 \$30.22 to \$30.64. 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 \$30.09 to \$30.72. 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: Saria Tseng For: James Moyer 09/18/2013

** 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.