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) 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) 09/04/2014 4. If Amendment, Date of Original Filed (Month/Day/Year)) 6.	. In	ck all app Direct Office below	ationship of Repo k all applicable) Director Officer (give til below)		10% tle Otho belo		wner specify
(Street) SAN JOS (City)			5119 (ip)												ine j	X Form filed by One Reporting Person Form filed by More than One Reportir Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Dec Executi if any (Month	ate,		ransaction ode (Instr.		4. Securities Acquired (AD Disposed Of (D) (Instr. 3)	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									v	Amount o		A) or D)	Price		Repor Trans (Instr.		ion(s)	(111501. 4)		(IIIS	su. 4)
Common Stock 09/04/2			09/04/2014			S ⁽¹⁾			4	4,600 I		\$47.1846(2)		2)	15,183		I		by Moyer FamilyTrust		
Common Stock 09/05/201			09/05/2014			S ⁽¹⁾	1)		4	,600	D	\$47.1976(3)		3)	10,583		I		by Moyer FamilyTrust		
Common Stock														1,018,7		,742		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 Secur Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired bsed	Ex (M	pirati onth/	Expiration able Date		Ar Se Ur De Se 3 a	7. Title and Amount of Securities Underlying Derivative Security (Inst: 3 and 4) Amou or Numb of Title Share		of D S	8. Price 9. Number of Security Security (Instr. 5) Following Reporte Transac (Instr. 4		re es ally ng d tion(s)	10. Ownersh Form: Direct (E 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 \$46.84 to \$47.56. 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 \$46.79 to \$47.47. 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 09/08/2014

** 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.