FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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) 07/23/2013									(Ch	Relationshi eck all app X Direct Offict below	orting Person(s) to  10% ( tle Other below		% 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 ne)  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	Jui	red, I	Disp	osed o	f, o	r Benefi	cial	ly Own	ed					
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Yea		ate,	Code				4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			Beneficial Owned		s Form ally (D) or Indire		n: Direct I		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code		v ,	Amou	nt (A or (D	.	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(ins	ar. 4)	
Common Stock			07/23/2013				S <sup>(1)</sup>			8,50	00	D \$26.288		<b>4</b> <sup>(2)</sup>	393,783		I		by Moyer FamilyTrust		
Common Stock			07/24/2013			S <sup>(1)</sup>			8,50	500 D \$		\$26.3885(3)		385,283		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. Nu of Deriv Securi Acqu (A) or Dispo of (D) (Instrand 5	rities ired sed	piratio	Exercisable and iton Date (// Day/Year)		Am Sec Und Der Sec 3 an	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbr of Title Shares		8. Price of Oerivative Security Instr. 5)	derivativ ative Securitie ity Benefici		Owners Form: Direct (I or Indir g (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 \$26.13 to \$26.68. 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 \$26.11 to \$26.53. 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 <u>07/25/2013</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.