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 ar Moyer (Last)	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 01/07/2013										5. Relationship of Rep (Check all applicable) X Director Officer (give to below)			10%		% O					
79 GREAT OAKS BLVD (Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable Line) Y 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 (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Dee Executi if any (Month)	ate,		Transaction Code (Instr.		4. Securities Acq Disposed Of (D)				5)	Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	ļ	v A	Amount	(A) or (D)		Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(ins	ar. 4)	
Common	Stock	01/07/2013				S ⁽¹⁾			1,600	I)	\$22.3113(2)		458,083		I		by Moyer FamilyTrust			
Common Stock			01/08/2013			S ⁽¹⁾			1,600	I	D \$22.234		4(3) 456		5,483				by Moyer FamilyTrust		
Common	Stock													1,006,873		B73 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 Disport of (D) (Instrand 5	ative rities ired sed	Exp (Mo	oiration onth/Da	Expiration ble Date		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share:		o D S (I	8. Price of Security Benefici Owned Followin Reporte Transac (Instr. 4		ve Owners es Form: ially Direct (or Indii ng (I) (Inst d 4)		o) 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 \$22.22 to \$22.38. 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 \$22.22 to \$22.28. 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: James Moyer 01/09/2013

** 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.