FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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)					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 04/15/2013											ck all app Direc	tor er (give title		Person(s) to Is  10% Or  Other (solution)		wner
79 GREAT OAKS BLVD  (Street) SAN JOSE CA 95119  (City) (State) (Zip)					If Amendment, Date of Original Filed (Month/Day/Year)										i. Individual or Joint/Group Filing (Check Applicable)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					on	
Date			2. Transaction	2A. Deemed Execution Da		) ate,	3. Transaction Code (Instr. 8)		ion I	4. Securities Ac						5. Amour Securitie Beneficia Owned	nt of s ally	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
							Code	Code		Amount (		r	Price		Followi Reporte Transac (Instr. 3		ion(s)			(Ins	str. 4)
Common	Stock	04/15/2013				S <sup>(1)</sup>			1,6	00	D	\$22.1472(2)		2)	435,683		I		by Moyer FamilyTrust		
Common Stock			04/16/2013				S <sup>(1)</sup>	(1)		1,6	00	D \$2		\$22.1706(3)		434,083		I		by Moyer FamilyTrust	
Common Stock														1,006,301		,301	. <b>D</b>				
		Та	ble II - Derivat (e.g., pւ												y C	Owned					
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 Derive Securion (A) or Disposof (D) (Instrand 5	ative rities ired sed	Exp (Mo	oiratio onth/D	Exercisable and tion Date h/Day/Year)  Expiration sable Date		or		of es ng ye (Instr.	of De Se	Price enviative security sets. 5) Start Signature of the security sets. 5) Start Signature of the security sets. 5) Reporte Transac (Instr. 4)		re es ally ig d tion(s)	10. Ownersh Form: Direct (D or Indire (I) (Instr. 4)	iip )) ect	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 \$21.77 to \$22.31. 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 \$21.93 to \$22.29. 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 04/17/2013

\*\* 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.