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

Name and Address of Reporting Person*     Moyer James C					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner     Officer (give title Other (specify				6 Owner	
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 01/24/2017								Officer (give title Other (spec				` '	
(Street) SAN JOS (City)			5119 ip)	4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable ine)  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 (Instr. 3)  2. Transaction Date (Month/Day/Y				Year) if	Execution Date,					es Acquired (A) o Of (D) (Instr. 3, 4		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)		
								Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	d tion(s)	(11150. 4)		(111511. 4)	
Common Stock 01/24/201				17				<b>S</b> <sup>(1)</sup>		2,500	D	\$90	871,192 <sup>(2)</sup>		D			
Common Stock													71,823		I		by Moyer FamilyTrust	
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)	(Month/Day/Year) 8) Securit Acquir (A) or Dispos of (D) (Instr. and 5)			ative rities ired sed	Expiration Date (Month/Day/Year) Set			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		8. Price of Derivativ Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownersh Form: Direct (I or Indire (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)		

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The Securities Beneficially Owned reflects a bona fide gift by the Reporting Person.

By: Saria Tseng For: James Moyer 01/25/2017

\*\* 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.