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				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR ]											heck all a		olicable) ctor		erson(s) to Issuer		
(Last)	(Fir	,	Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/01/2017											Officer (give til below)		tle Othe belo		specify		
(Street) SAN JOS (City)			5119 (ip)	4. If Ar	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 \$	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution D if any (Month/Day/		ate,	3. Transacti Code (Ins 8)								Beneficial Owned		Form: (D) or Indire	rm: Direct ) or direct (I)		7. Nature of Indirect Beneficial Ownership			
						Code	•	v	Am	ount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Ins	tr. 4)		
Common Stock 02/01/2							<b>S</b> <sup>(1)</sup>	)		2	,000	D	D \$87.97		7 <sup>(2)</sup> 869,192		D				
Common												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)	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	rities ired osed	Ex (M	xpiratio	Exercisable and tion Date h/Day/Year)  Expiration sable   Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amoun or Numbe of Title Shares		8. Price of Derivativ Security (Instr. 5)	9. Number of derivative securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		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 \$87.31 to \$89.18. 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 02/02/2017

\*\* 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.