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 ]										Relationsh heck all app X Direct	plicable)		Person(s) to Issuer		
(Last)	(Fir	,	/liddle)		Date of Earliest Transaction (Month/Day/Year) /06/2017								Offic belo	cer (give title ow)		Other (specify below)			
(Street) SAN JOS (City)			5119 Zip)	4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
		Tabl	e I - Non-Deriv	ative S	ecu	rities	s Acq	uire	ed, Di	sposed	of, c	r Ber	eficia	Ily Own	ed				
Date			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution D if any (Month/Day		ate,	3. Transaction Code (Instr 8)		on Dis					5. Amou Securitie Benefici Owned	s Form ally (D) o Indir		ct (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)		(Instr. 4)		
Common Stock 03/06/2017							<b>S</b> <sup>(1)</sup>	S <sup>(1)</sup>		5,000	D	D \$87.5755 <sup>(2)</sup>		853,758		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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaci Code (In 8)		5. Nu of Deriv Secur (A) or Dispo of (D) (Instrand 5	rities ired r osed . 3, 4	Expi (Mor	iration I	e Exercisable and ation Date h/Day/Year)  Expiration isable Date		Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownersh Form: Direct (E 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 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 \$87.065 to \$88.09. 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 03/07/2017

\*\* 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.