FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number: 3235-0								
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				MON	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									neck all ap	plicable) ctor	,		% Ov	
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/01/2017									below) below)					
(Street) SAN JOS (City)	E CA	4. If Amendment, Date of Original Filed (Month/Day/Year)									Lin	Individual or Joint/Group Filing (Check Applicable Line)     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/Year)	2A. Deemed Execution Date, if any (Month/Day/Yea			Code (In							5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
						Code	v	Amo	unt (	(A) or (D)	Price	•	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common Stock 08/01/2017							<b>S</b> <sup>(1)</sup>		2,	,000,	D	\$103.072		<sup>2)</sup> 788,201 <sup>(3)</sup>		D			
Common Stock 08/01/2017							S <sup>(4)</sup>		10,	000(5)	D	D \$103.134 <sup>()</sup>		778,201		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. Transact Code (In 8)		of Deriv Secu Acqu (A) o Disp	r osed ) r. 3, 4	Expira (Month	Exercisable and tion Date (//Day/Year)  Expiration sable Date		An Se Un De Se 3 a	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbe of Title Shares		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followir Reporter Transaci (Instr. 4)	ve es ally ng d tion(s)	Ownershi Form: Direct (D) or Indirec (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 \$102.32 to \$103.59. 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 Securities Beneficially Owned reflects a bona fide gift by the Reporting Person.
- 4. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.
- 5. Represents shares held in spouse name.
- 6. 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 \$103.01 to \$103.22. 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

\*\* 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.