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 ]									eck all app X Direc	olicable) etor		erson(s) to Issuer 10% Owner Other (specif		wner
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/07/2018								Officer (give title Other (spe below) below)					specify	
(Street) SAN JOS (City)	4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)									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																		
Date			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution D if any (Month/Day		ate,	Code (		saction e (Instr. 4. Securities Ac				Beneficially Owned		s ally	Form: (D) or Indire	ct (I)	7. Nature of Indirect Beneficial Ownership	
							Code		V A	Amount (		Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)	
Common Stock 05/07/2							S <sup>(1</sup>		1	0,000(2)	D	D \$124.89 <sup>(3)</sup>		656,815		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)		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instrand 5	ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			Amo Secu Und Deri Secu 3 an	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		s. Price of derivative security lester. 5) Security lester. 5) Security Reporte Transac (Instr. 4)		ve Owners es Form: ially Direct ( or Indi (I) (Inst 4)		hip (	11. Nature of Indirect Beneficial Ownership (Instr. 4)

## Explanation of Responses:

- 1. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.
- 2. Represents shares held in spouse name.
- 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 \$124.84 to \$125.12. 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

05/09/2018

\*\* 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.