FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPR	MB 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				MON	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										k all app Direc	or		109	6 Owner	
(Last)	(Fir AT OAKS B	,	Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/09/2018										Officer (give tit below)		le Othe belov		er (specify ow)		
(Street) SAN JOS (City)			75119 Zip)	4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)									i. 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/Year)	2A. Deemed Execution Dat if any (Month/Day/Ye		Code		ction Instr.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and					Beneficia Owned		s ally	(D) or	Direct	7. Nature of Indirect Beneficial Ownership	
						Code	v	Amo	unt	(A) or (D)	Price		R	Following Reported Transaction(s) (Instr. 3 and 4)		Indirect (I) (Instr. 4)		(Instr. 4)		
Common Stock			04/09/2018				S <sup>(1)</sup>		15,000		D	\$113.4072(2)		666,815		D				
Common Stock														71,823		323	I		by Moyer FamilyTrus	
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 of (D	osed ) r. 3, 4	Expira (Month	e Exercisable and ition Date h/Day/Year)  Expiration sable Date		tion	Amount of Securities Underlying Derivative Security (Instr 3 and 4)		of Deri Sec	8. Price of Security Security (Instr. 5) Followin Reporte Transac (Instr. 4		ve Owners es Form: ally Direct ( or Indii (I) (Insti		Beneficial ) Ownership	

## 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 \$111.15 to \$114.40. 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 04/10/2018

\*\* 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.