## 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 <sup>®</sup> <u>Moyer James C</u>				2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]										heck all a X Dir	tionship of Reporting all applicable) Director Officer (give title		Person(s) to Issuer 10% Owner Other (specify		
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 01/16/2018										ow)	belo			
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										<ul> <li>Individual or Joint/Group Filing (Check Applicable ine)</li> <li>X Form filed by One Reporting Person</li> <li>Form filed by More than One Reporting Person</li> </ul>				
Tab			e I - Non-Derivative Se 2. Transaction Date (Month/Day/Year) (Month/Da		med on Da	nte,	3. Transaction Code (Instr. 8)		4. Disposed of, or Benef 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			() or	5) 5. Amount of Securities Beneficially Owned		(D) or	rship I Direct I	7. Nature of ndirect Beneficial Dwnership		
							Code	v	(A) Amount (D)		or	Pric	e			Indirect (I) (Instr. 4)		(Instr. 4)	
Common Stock			01/16/2018				<b>S</b> <sup>(1)</sup>	15		,000	D	\$122.3646(2)		705,225		D			
Common Stock														7	,823			oy Moyer FamilyTrust	
		Та	ble II - Derivat (e.g., p)										neficiall urities)	y Owne	d				
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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)				7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivativ Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership	
				Code	v	(A)	(D)	Date Exerci	sable	Expirat Date		Title	Amount or Number of Shares						

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 \$120.59 to \$123.89. 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	01/17/2018
Moyer	01/1//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.