## 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]									<b>)</b> (Ch	eckallapp X Direc	nship of Reporting Pe   applicable) Director Dfficer (give title pelow)		Person(s) to Issuer 10% Owner Other (specify		
(Last) 79 GREA	(Last) (First) (Middle) 79 GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 07/10/2017												below)		
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If Amendment, Date of Original Filed (Month/Day/Year)       6. Individual or Joint/Group Filing (Check Applicable Line)         X       Form filed by One Reporting Person         Form filed by More than One Reporting Person											erson				
Table I - Non-Deriva           1. Title of Security (Instr. 3)         2. Transaction Date           (Mage 44 (Day) (Ver))         2. Transaction Date				2A. De Executi	Ative Securitie 2A. Deemed Execution Date, if any		3. Transacti Code (Ins		4. Securities Acc Disposed Of (D)			red (A)	or	5. Amount of Securities Beneficially		6. Ownership Form: Direct (D) or		7. Nature of Indirect Beneficial	
			(Month/Day/Year)		(Month/Day/Year)		Code 8) Code	v	Am	ount	(A) or (D)	Price		Owned Following Reported Transaction(s) (Instr. 3 and 4)		Indirect (I) (Instr. 4)		Ownership (Instr. 4)	
Common Stock			07/10/2017			<b>S</b> <sup>(1)</sup>		1:	5,000	D	D \$97.645		790,758		D				
Common Stock														71,823				by Moyer FamilyTrust	
		Та	ble II - Derivat (e.g., pı											Owned					
1. Title of Derivative Security (Instr. 3)				5. Num of Derivat Securit Acquir (A) or Dispos of (D) (Instr. 3 and 5)		vative rities lired r osed ) ∵ 3, 4	Expirat	ion D	ixercisable and on Date Day/Year)		7. Title and 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 (D or Indire (I) (Instr. 4)	Beneficial Ownership		
				Code	v	(A)	(D)	Date Exercis	sable	Expiratio Date	n Tit	or Ni of	umber						

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 \$97.35 to \$98.47. 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	07/12/2017				
Moyer	0//12/2017				
** Signature of Reporting Person	Date				

Signature of Reporting Person

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.