FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 [®] <u>Moyer James C</u>					2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]											all app Direc	blicable) tor		109	to Issuer 6 Owner or (opposity
(Last) 79 GREA	Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 01/03/2017										Officer (give title below)		lie	Other (specify below)	
(Street) SAN JOSE CA 95119 (City) (State) (Zip)														Li	. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Non-Deriv	ative S	ecu	ritie	s Acc	quii	red,	Dis	posed	of, c	or Be	eneficia	ally	Owne	ed			
1. Title of S	Security (Inst	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Da if any (Month/Day/Y)ate,	3. Transac Code (Ir 8)					cquired (A) or)) (Instr. 3, 4 and			Beneficially Owned		Form: (D) or Indire	Direct ct (I)	7. Nature of ndirect Beneficial Dwnership		
						Code	,	v	Amo	ount d	A) or D)	Pric	Price		 Following Reported Transaction(s) (Instr. 3 and 4) 		(Instr. 4)		(Instr. 4)	
Common	Stock	01/03/2017				S ⁽¹⁾)		2,	,000	D	\$ 82.7112 ⁽²⁾		2)	873,982		D			
Common Stock														71,8		823		I by Moyer FamilyTrust		
		Та	ble II - Derivat (e.g., թւ												y O	wned				
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. Transac Code (Ir 8)		5. Nu of Deriv Secu Acqu (A) o Dispe of (D) (Instr and §	rities ired osed . 3, 4	Exp	6. Date Exercisable and Expiration Date (Month/Day/Year)				7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of Der Sec	Price ivative urity str. 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)	Dat Exe	te ercisa	able	Expiratio Date	n Tit		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 \$82.06 to \$83.82. 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	01/04/2017
Moyer	01/04/2017
** 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.

OMB APPROVAL