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).

N 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				2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]								neck all ap X Direc	plicable)		Person(s) to Issuer 10% Owner Other (specify				
(Last) (First) (Middle) 79 GREAT OAKS BLVD			3. Date of Earliest Transaction (Month/Day/Year) 06/01/2017								belo	.0			ow)				
(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 								
		Tabl	e I - Non-Deriv	ative S	ecu	rities	s Acq	uire	d, Di	isposed	of, c	or Bei	neficia	lly Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date if any (Month/Day/Ye		Date, Tran Cod		ransaction ode (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Ar	nount	(A) or (D)	Price)	Reporte Transac (Instr. 3	d tion(s)	(instr.	4)	(instr. 4)	
Common Stock			06/01/2017			S ⁽¹⁾	S ⁽¹⁾		2,000	D	D \$98.2665 ⁽²⁾		822,758		D				
Common Stock														71,	823			by Moyer FamilyTrust	
		Та	ble II - Derivat (e.g., թւ							oosed of converti				/ Owned					
1. Title of Derivative Security (Instr. 3) 2. 3. Transaction Date (Month/Day/Year) Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instr and 5	rities ired sed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)		An Se Un De Se	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount		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 Exerc	cisable	Expiratio Date	n Til	0 N 0	r lumber						

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 \$97.93 to \$98.73. 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	06/05/2017
Moyer	06/05/2017
** 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

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