FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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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

Name and Address of Reporting Person* Moyer James C				MC	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 12/13/2016								below) below)					
(Street) SAN JOS (City)			5119 (ip)	4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) 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/You			ear) E	2A. Deemed Execution Date, if any (Month/Day/Year)		, 1			s Acquired (A) o of (D) (Instr. 3, 4		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	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(iiisu.	<u>'</u>	(11301. 4)	
Common Stock 12/13/20			16	5			S ⁽¹⁾		2,500	D	\$85.62	875,982		D				
Common Stock												71,823		I		by Moyer FamilyTrust		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Security (Instr. 3) Conversion or Exercise Price of Derivative Security Security Security Execution Date, (Month/Day/Year) (Month/Day/Year)			4. Transa Code (8)		5. Numof Of Deriva Securi Acqui (A) or Dispo of (D) (Instr. and 5	ative rities ired sed	Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		8. Price of Security derivative Security (Instr. 5) Pendici Owned Followin Reporte Transac (Instr. 4		ve Owners es Form: ially Direct (I or Indir ng (I) (Instr td 4)		Beneficial Ownership ect (Instr. 4)		

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: James Moyer

12/14/2016

** 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.