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

Name and Address of Reporting Person* Moyer James C				MON	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck a	nship of Report applicable) Director Officer (give title					o Owner	
(Last)	(Fir.	,	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/12/2017										pelov	ν.Ο			ner (s low)	specify	
(Street) SAN JOS (City)			95119 Zip)	4. If Ar	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/Year)	2A. Deemed Execution Date if any (Month/Day/Yea		Code						Beneficially Owned			6. Ownership Form: Direct (D) or		7. Nature of Indirect Beneficial Ownership				
						Code	v	Amo	unt d	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		ion(s)	Indirect (I) (Instr. 4)		(Instr. 4)			
Common Stock			09/12/2017			S ⁽¹⁾			15,	000	D	\$105.1984(2)		²⁾ 761,201		201	D				
Common Stock														71,823		823	I		by Moyer FamilyTrust		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
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. Transact Code (In 8)		of Deriv Secu Acqu (A) o Disp of (D	vative rities uired r osed) r. 3, 4	Expira (Month	te Exercisable and ation Date th/Day/Year) Expiration tisable Date		on A	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amoun or Numbo of Title Shares		of Derivative Security (Instr. 5) Owned Followi Reporte Transac		9. Numbo derivativ Securitie Beneficia Owned Followin Reportec Transact (Instr. 4)	overing Countries ally Direct or Indi (I) (Inst 4) tion(s)		nip () ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

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 \$104.46 to \$105.68. 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 Moyer 09/13/2017

** 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.