FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner Officer (a) to title Check (2000)					wner		
(Last) 79 GREA	(Fir AT OAKS B	,	Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/01/2017											Officer (give title Other (spec below) below)					specify		
(Street) SAN JOS (City)			5119 (ip)	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 D if any (Month/Day/		ate,		Fransaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an					5. Amount or Securities Beneficially Owned Following		s ally	Form: (D) or Indired		Indi Ben Owr	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code		v	Am	ount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(ins	ar. 4)			
Common	Stock	05/01/2017				S ⁽¹⁾)		2	,000	D	D \$91.356		834,758		758	D					
Common													71,823		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)		5. Nu of Deriv Secul Acqu (A) oi Dispo of (D) (Instrand 5	rities ired r osed . 3, 4	Ex (N	expirati Month/	e Exercisable and ation Date h/Day/Year) Expiration isable Date			Title mour ecuri nderl eriva ecuri and	nt of ties lying tive ty (Instr.	of Deriv Secu	8. Price of Security Security (Instr. 5) General Reporte Transac (Instr. 4		ve Owners es Form: ially Direct or Indi ng (I) (Inst ed 4)		nip O) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

- 1. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.
- 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 \$90.51 to \$92.38. 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 05/02/2017

** 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.