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

1. Name ar	10M	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MONOLITHIC POWER SYSTEMS INC										eck all app X Direc	tor		109	10% Owner					
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 04/03/2017										Officer (give title Othe below) below					specify	
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										. Individual or Joint/Group Filing (Check Applicable ine) 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/Ye						Cod	Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 at 5)						s illy	Form: (D) or Indire	ndirect (I)		7. Nature of Indirect Beneficial Ownership		
							Cod	le	v	Amo	ount	A) or Price D)		Reported Transaction(s) (Instr. 3 and 4)		ion(s)	(Instr. 4)		(Instr. 4)		
Common	Stock	04/03/2017				S(1)		2,000		D	\$91.608(2)		851,758		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)																					
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. Num of Deriva Secur Acqui (A) or Dispo of (D) (Instr. and 5	ative ities ired sed	Exp	Date Ex piration onth/Da	n Dat		Amo Secu Und Deri	tle and unt of urities erlying vative urity (Instr d 4) Amour or Numbe		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followin Reported Transact (Instr. 4)	ve es ally ng d tion(s)	10. Ownersh Form: Direct (E or Indire (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)	of Indirect Beneficial Ownership	
				Code	Code V (A)		(D)	Date Exercisal		Expiration Date		Title	of								

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 \$91.19 to \$92.28. 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 04/04/2017

** 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.