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* Xiao Deming					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									all app	plicable) ctor		Owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/18/2017								X	Officer (give title below) Pres. of MPS		below	,
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	rividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - Non-Deriv	ative :	Secu	ırities A	Acaui	ired. I	Dist	posed o	f. or E	Benefic	ially	Own			
1. Title of Security (Instr. 3) 2. Tr.				action 2A. De Execu Day/Year) if any			3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			ed (A) or	or 5. Amou		nount of rities ficially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
						Code	v	Aı	mount	(A) or (D)	Price	Rep Tra		orted saction(s) r. 3 and 4)	(Instr. 4)	(Instr. 4)	
Common	05/18/201	.7			S ⁽¹⁾			5,352	D	\$93.63	93.6364(2)		86,725	D			
Common Stock														1,131	I	by Spouse	
		Та	ble II - Derivat (e.g., p							sed of, onvertib				wned	I		
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. Transaction Code (Instr. 8)		5. Numb of Derivativ Securitic Acquirer (A) or Dispose of (D) (Instr. 3, and 5)	Expiration re (Month/Da		n Da	ite	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		Secu (Inst	vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A) (D		ate xercisab		Expiration Date	Title	Amoun or Numbe of Shares	er				

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 \$92.15 to \$94.07. 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: Deming <u>05/19/2017</u>

** 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.