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 and Address of Reporting Person*  Xiao Deming  (Last) (First) (Middle)  79 GREAT OAKS BLVD  (Street)  SAN JOSE CA 95119					MC [ MI 3. Da 02/1	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR  3. Date of Earliest Transaction (Month/Day/Year) 02/10/2017  4. If Amendment, Date of Original Filed (Month/Day/Year)									S. Relationship of Reporting Person(s) to Issuer (Check all applicable)      Director 10% Owner     Officer (give title Other (specify below) below)      Pres. of MPS Asia Operations  6. Individual or Joint/Group Filing (Check Applicable Line)      X Form filed by One Reporting Person  Form filed by More than One Reporting					
(City)	(Sta	ate) (Z	Zip)													Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transactic Date (Month/Day/					Execution (Year)			tion Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			Secu Ben Own		Form (D) o	rect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	or F	Price	Rep Tran	Following Reported Fransaction(s) Instr. 3 and 4)		1. 4)	(Instr. 4)	
Common Stock 02/10/20						17			<b>S</b> <sup>(1)</sup>		18,201	I	D \$89.294		4	322,152		D		
Common Stock 02/14/20					17			S <sup>(2)</sup>		13,622	I	) (	\$85.19	7	308,530		D			
Common Stock														1,152		I	by Spouse			
	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)	tive Conversion Date ty or Exercise (Month/Day/Year) if any			Code (	saction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ative rities ired osed	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amount or Number of Title Shares		str.	. Price f erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	(I (I (I (I)	0. Ownership orm: Direct (D) or Indirect I) (Instr. )	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. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: Deming <u>Niao</u> 02/14/2017

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.