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)							2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year)									all app Direct Office below	plicable) ctor er (give title w)		Person(s) to Issuer  10% Owner Other (specify below)	
(Street)	SAN JOSE CA 95119						08/15/2017  4. If Amendment, Date of Original Filed (Month/Day/Year)									Pres. of MPS Asia Operations ividual or Joint/Group Filing (Check Applicable  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																				
				2. Transaction Date (Month/Day/Year		2A. Deemed Execution Dat if any (Month/Day/Yo			Date, T		tion nstr.	4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4				Secur Bene Owne	ficially d	For (D) Ind	lirect (I)	7. Nature of Indirect Beneficial Ownership
								c	ode	v	Amount	(A) or (D)	Price		Repo Trans	Following Reported Transaction(s) (Instr. 3 and 4)		str. 4)	(Instr. 4)	
Common	08/15/2017						<b>J</b> (1)		144	A	\$73.	.117	280,865			D				
Common Stock 11/0					.7					<b>S</b> <sup>(2)</sup>		6,004	14 D \$123		.0626	274,861		D		
Common														1,101		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)	ve Conversion or Exercise Price of Derivative Security  Date (Month/Day/Year)  Execution Date, if any (Month/Day/Year)				saction of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)		tive ties red sed	Expir (Mon	te Exer ation I th/Day	(Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)  Amount or Number of Title Shares		Seci (Ins	rice vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- 2. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: Deming Xiao 11/07/2017

\*\* 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.