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					MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck	all app	licable)	ng Person(s) to		Owner
(Last) 79 GREA	(Fin	,	3. Date of Earliest Transaction (Month/Day/Year) 07/25/2016										X	belov	v)	Asia	Other (specify below) asia Operations			
(Street) SAN JOS (City)			5119 Zip)		4. If A	meno	lment,	l File	d (Month/D	ay/Ye	ar)		Individual or Joint/Group Filing (Check App 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. Transac Date (Month/Da				y/Year)	Execuif any	Deemed ution Date, y tth/Day/Year)		Transaction D			Securities Acquired (isposed Of (D) (Instr. 3			3, 4 Sed Be Ow		. Amount of ecurities eneficially byned		Ownership m: Direct or irect (I)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		A) or D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)	
Common Stock 07/25				07/25/2	016				S <sup>(1)</sup>		10		D	\$71.99		367			I	by Spouse
Common Stock														284,642			D			
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)	titive Conversion Date ty or Exercise (Month/Day/Year) if any		tion Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amoun or Numbe of Title Shares			nt er		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. 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 <u>07/26/2016</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.