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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 07/23/2014										all app Direct Office below	plicable) ctor er (give title		Person(s) to Issuer  10% Owner Other (specify below) ia Operations		
(Street) SAN JOS (City)			5119 Lip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indiv ne) X	Form	al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date				2. Transact Date (Month/Da	y/Year)	Execu	Deemed ution Date, y nth/Day/Year)					ities Acquired ( d Of (D) (Instr. 3			3, 4 Sec Ber Ow		Amount of ecurities eneficially wned		wnership m: Direct or rect (I) tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount		A) or D)	Price		Repor Trans	Following Reported Transaction(s) (Instr. 3 and 4)		u . 4)	(111501.4)		
Common Stock 07/23/20						014			S <sup>(1)</sup>	) 10			D	\$43.07		5,863			I	by Spouse	
Common Stock																80,022			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)	ve Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			Fransaction Code (Instr. 3)		rative rities ired rosed ) . 3, 4 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Inst. 3 and 4)  Amount or Numb of Title Share		ount	1		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		IO. Dwnership Form: Direct (D) or Indirect I) (Instr. I)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming Xiao 07/24/2014

Xiao

\*\* 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.