FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPRO	OMB APPROVAL							
OMB Number:	3235-0287							
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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

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Name and Address of Reporting Person*     Xiao Deming						2. Issuer Name and Ticker or Trading Symbol  MONOLITHIC POWER SYSTEMS INC  MPWR  MPWR										olicable)	g Person(s) to 10% (	Issuer Owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/08/2014									X	belo	,	Other below sia Operatio	,
(Street) SAN JOSE CA 95119					4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	X Form filed by One Reporting Person			
(City)	(Sta	ate) (Z	ľip)												Form filed by More than One Reportii Person			
		Table	e I - N	Non-Deriv	ative	Secu	ırities A	cqui	red,	Dis	sposed of	f, or B	enefic	cially	Own	ed		
1. Title of Security (Instr. 3)			D	2. Transactio Date Month/Day/Y	rear) E	Execution Date,		3. Transaction Code (Instr.			4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			4 and Securi Benefi Owned		ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								Cod	le \	,	Amount	(A) or (D)	Price	1	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common Stock 05/					14			S <sup>(</sup>	[1)		1,864	D	\$36.	.4302	8	80,111	D	
Common Stock 05/08					14			S <sup>(</sup>	1)		89	D	\$3	6.43	8	80,022	D	
Common Stock																6,180	I	by Spouse
		Та	ble II	- Derivat (e.g., pu							osed of, c				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execut if any	3A. Deemed Execution Date, if any (Month/Day/Year)		ction Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, and 5)	Expiration I (Month/Day/			ate	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Seci (Ins	ivative urity etr. 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)
					Code	v	(A) (D)	Date Exercisabl		ble	Expiration Date	Title	Amour or Numbe of Shares	er				

## Explanation of Responses:

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

By: Saria Tseng For: Deming Xiao 05/09/2014

\*\* 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.