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

(Street) SAN JOSE CA 95119 Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) Amount Common Stock O3/16/2017 Securities Common Stock O3/16/2017 Securities Common Stock O3/16/2017 Securities Common Stock O3/16/2017 Securities	1. Name an Xiao D	<u>MO</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year)										all app	er (give title	ng Pe	10% C	Owner (specify				
City							· · · · · · · · · · · · · · · · · · ·										,			,	
City (State Cip) (State Cip) (City Cip)	l I						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
Collaboration Collaboratio	SAN JOS	E CA	A 9	95119													, , ,				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year) 2. Deemed Execution Date, (Month/Day/Year) 3. Deemed Execution Date, (Month/Day/Year) 3. Deemed Execution Date, (Month/Day/Year) 3. Transaction (Signature) 3. Deemed Execution Date, (Month/Day/Year) 3. Transaction 3. Deemed Execution Date, (Instr. 3) 3. Transaction 3.	(City)	(St	ate) (Ž	ː ip)													Pers	on		·	
Date (Month/Day/Year) Month/Day/Year) Mont	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
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Common Stock 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) Price of Derivative Security Security Price of Derivative Security Securities Securitie										Code	v	Amount			Price	,	Repor Trans	Reported Transaction(s)		u . 4)	(mau. 1)
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(e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise (Month/Day/Year) 2. Conversion or Exercise (Month/Day/Year) 3. Transaction Date Execution Date, if any (Month/Day/Year) 3. Transaction Date (Month/Day/Year) 4. Transaction Derivative Securities (Month/Day/Year) 5. Number of Derivative Securities (Month/Day/Year) 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) 9. Number of derivative Securities Underlying Derivative Security (Instr. 5) 9. Number of derivative Securities (Month/Day/Year) 9. Number of Ownership Form: Direct (D) Owner Following Reported Transaction(s) (Instr. 4) 9. Number of derivative Securities (I) (Instr. 4) 9. Number of Ownership Form: Direct (D) Owner Following Reported Transaction(s) (Instr. 4)	Common Stock																298,080			D	
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Number Date Expiration Of	Derivative Security	Conversion or Exercise Price of Derivative	onversion Date Execution Date, r Exercise (Month/Day/Year) if any (Month/Day/Year) erivative			Transac Code (I	Transaction of Code (Instr. 8) Sec Ac: (A) Dis of (Instr. 9)			Expiratio	n Da	te ear)	Amount of Securities Underlying Derivative Security (Instr 3 and 4)		nstr.	of Derivative Security (Instr. 5)		derivative Securities Beneficially Owned Following Reported Transaction(s)		Ownership Form: 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.

By: Saria Tseng For: Deming <u>03/17/2017</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.