## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

1. Name and Address of Reporting Person <sup>*</sup> Xiao Deming						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									heck all [	applicable) Director	0	Person(s) to Issu 10% Own		
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 04/24/2017										X t	Officer (give title elow) Pres. of MPS		Other (specify below) sia Operations		
(Street) SAN JOS (City)	SAN JOSE CA 95119				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) <mark>X</mark> F F	- /				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disp			urities Acquired (/ sed Of (D) (Instr. 3			Se Be Ot	Amount of curities eneficially vned	6. Owner Form: Di (D) or Indirect	rect	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A (C	A) or D)	Price	R	ollowing eported ansaction(s) astr. 3 and 4)	(Instr. 4)		(Instr. 4)		
Common Stock 04/24/2					017	)17			<b>S</b> <sup>(1)</sup>		12		D	<b>\$94</b> .	99	1,131			by Spouse	
Common Stock															298,080	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)	rivative Conversion Date Execu curity or Exercise (Month/Day/Year) if any		eemed 4. tion Date, Transa Code ( h/Day/Year) 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share:		ount nber	8. Price of Derivat Securit (Instr.	ive Securities y Beneficially	Owne Form Direc or In (I) (In 4)	t (D) tirect	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 Xiao <u>04/26/2017</u>

71100

\*\* 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.