FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

Name and Address of Reporting Person* Xiao Deming						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
	<u> </u>	[MPWR]								X	Director Officer (give title below)			(specify						
(Last) 4040 LA		3. Date of Earliest Transaction (Month/Day/Year) 04/23/2019									Pres. of MPS Asia Operations									
(Street) KIRKLAND WA 98033						4. If Amendment, Date of Original Filed (Month/Day/Year)									fividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S		(Zip)																	
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye						2A. Deemed Execution Date			3. Transacti Code (Ins	on	4. Securiti Disposed	ed (A) or	or 5. A and 5) Secu Ben Own		mount of (urities (6. Ownership Form: Direct (D) or Indirect (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 04/23/2019						(1)			M ⁽¹⁾		9,600(1)	A	\$0	\$0.0		59,151				
Common Stock 07/01/201					9)			S ⁽²⁾		4,305	D	\$139.	9.5561		42,394	D			
Common Stock															1,101	I	by Spouse			
		Ta	able	II - Derivat							posed of converti				wned	l				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if any	Deemed sution Date,	4. Transa Code (I	ction	5. Number		6. Date Exerc Expiration Day/Y		cisable and	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Po of Deri Seco	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amoun or Numbe of Shares	r						
Restricted Stock Units	(1)	04/23/2019			M ⁽¹⁾			9,600	(1)		(1)	Common Stock	9,600	\$	0.0	38,400	D			

Explanation of Responses:

1. On October 25, 2018, the reporting person was granted a target number of 9,600 performance units and can earn up to a maximum of 48,000 performance units subject to satisfaction of five stock price targets ranging from \$140 to \$172 over the performance periods from October 25, 2018 to December 31, 2023, as determined by the Compensation Committee of the Company. All performance units are subject to time based vesting and require service through January 1, 2024 or an earlier change in control. Once vested, performance units convert into shares of common stock on a 1-for-1 basis and one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2024, one-third of the shares have sales restrictions until January 1, 2025 and one-third have sales restrictions until January 1, 2026. On April 23, 2019, the first price target had been met and approved by the Compensation Committee, which resulted in 9,600 units being credited, subject to time based vesting above.

2. 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 Viao 07/03/2019

** Signature of Reporting Person Dat

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.