FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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*     Tseng Saria					MC	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR										k all applic Directo	able) r	ng Person(s) to Is		wner
(Last) 79 GREA	(Fir.	,	∕liddle	9)		5. Date of Earliest Transaction (Month/Day/Year) 02/06/2017									X	below)		o Other (s below) neral Counsel		pecify
(Street) SAN JOS (City)			5119 Zip)	9	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										dividual or Joint/Group Filing (Check Applicable ) ( Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	eI-	Non-Deriv	ative	Sec	curi	ties A	cq	uirec	l, Di	sposed of	, or Be	enefic	ially	Owned				
, ,				2. Transaction Date (Month/Day/Y	ear) i	f any	tion	med on Date, Day/Year)		ansact		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				Securiti Benefici Owned			n: Direct c r E ect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Co	ode	v	Amount	(A) or (D)	Price		Followin Reporte Transac (Instr. 3	d tion(s)	(Instr	(	
Common Stock				02/06/201	17				<b>S</b> <sup>(1)</sup>			4,723	D	\$88.	2535	266,412			D	
Common Stock				02/07/201	17					A		68,604(2)	A	\$0		335,016			D	
Common	1 Stock 02/07/2017			7(3)				N	M <sup>(3)</sup>		4,876(3)	4,876 <sup>(3)</sup> A		0	339,892			D		
			Та	ıble II - Deri (e.g.								posed of, or convertible			Ow	ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date, y nth/Day/Year)		saction of Derivat Securit Acquire (A) or Dispos of (D) (Instr. 3 and 5)		erivative ecurities equired ) or sposed (D) astr. 3, 4	Expiration (Month/Da				7. Title and Amount of Securities Underlying Derivative Security (Instrant 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	ve es ally ng d tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A	) (D)		Date Exerc	isable	Expiration Date	Title	Amo or Num of Shar	ber					
Performance Shares	(3)	02/07/2017 <sup>(3)</sup>			M <sup>(3)</sup>			4,876	(3)	(3)		(3) Comm Stock		n 4,8	76	\$0 56,1		4	D	

## **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.
- 2. On February 3, 2015, the reporting person was granted a target of 24,213 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 7, 2017, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 44,391 additional shares being achieved and granted to the reporting person. Of the restricted stock units that were awarded, 34,302 will vest immediately and 34,302 will vest quarterly in the next two years.
- 3. On December 31, 2015, the reporting person was granted a target of 75,678 shares of restricted stock units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of restricted stock units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee of the Company. All restricted stock units are subject to time based vesting. Once vested, one-third of shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022. On February 7, 2017, the Compensation Committee of the Company determined that one of the five share price targets for the first tranche of restricted stock units had been satisfied, which resulted in 4,876 shares being granted, subject to time based vesting described above.

/s/ Saria Tseng 02/08/2017

\*\* 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.

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