## 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

1. Name and Address of Reporting Person <sup>*</sup> Blegen Theodore						2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [ MPWR ]									heck all Di	ship of Reporti applicable) rector		10% C	owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 06/26/2017										Officer (give title below) CFC		Other (specify below)		
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Lir	ne) <mark>X</mark> Fo Fo	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execution Date,						ities Acquired (A d Of (D) (Instr. 3			Sed Bel Ow Fol	Amount of surities neficially ned lowing	For (D) Ind	Ownership rm: Direct or lirect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(# (E	() or ()	Price	Tra	oorted nsaction(s) str. 3 and 4)			
Common Stock 06/26/20						)17			<b>S</b> <sup>(1)</sup>		4,604	ŧ 🗌	D	\$ <mark>99</mark>	(2)	42,530		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)	vative Conversion Date Execution rity or Exercise (Month/Day/Year) if any		emed 4. ion Date, Transa Code (i /Day/Year) 8)				6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amour or Numbe of Title Shares		ount	8. Price of Derivati Security (Instr. 5	Beneficiall	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$99.00 to \$99.462534. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

> /s/ Saria Tseng For: Theodore 06/27/2017 Blegan

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $^{\ast}$  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.