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

1. Name and Address of Reporting Person*  Blegen Theodore  (Last) (First) (Middle)  79 GREAT OAKS BLVD						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 02/07/2017									heck all a Dir V	hip of Reporti pplicable) ector icer (give title ow)	ing Pe	10% C	Owner (specify
(Street) SAN JOS (City)			5119 Zip)		4. If A	. If Amendment, Date of Original Filed (Month/Day/Year)									ne) <mark>X</mark> Fo Fo	or Joint/Group Filing (Check Applicable on filed by One Reporting Person on filed by More than One Reporting one filed by More than One Reporting			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day						Execution Date,						rities Acquired ( ed Of (D) (Instr. 3			Sec Ben Owr	mount of irities eficially ed owing	For (D) Ind	Ownership rm: Direct or irect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(,	A) or D)	Price	Rep Trai	Reported Transaction(s) (Instr. 3 and 4)		su . 4)	(111341. 4)
Common Stock 02/07/2						017		A		2,460(1)		A	\$ <mark>0</mark>	.0	50,372		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)	e Conversion or Exercise (Month/Day/Year) Price of Derivative Security  Execution Date, if any (Month/Day/Year)  (Month/Day/Year)  8		4. Transac Code (Ir 8)			6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Insti 3 and 4)  Amount or Numb of Share		ount nber	8. Price of Derivativ Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## **Explanation of Responses:**

1. On February 3, 2015, the reporting person was granted a target of 1,337 shares of restricted stock units, with the right to earn up to 200% of the target shares, 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 1,123 additional shares being achieved and earned by the reporting person. Of the restricted stock units that were awarded, 1,230 will vest February 16, 2017 and 1,230 will vest quarterly in the next two years.

02/13/2018

\*\* 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.