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* <u>Ueunten Paul</u>					MC	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]								(Chec	k all app Dired	olicable) ctor	g Person(s) to	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 11/10/2010								X	Officer (give title below) Sr. V.P. Design		below	)	
(Street) SAN JOS (City)	AN JOSE CA 95120				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									lividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(31.			Non-Deriv	n-Derivative Securities Acquired, Disposed of, or Benefic											ed		
1. Title of Security (Instr. 3) 2. Tra			2. Transactio	n 2 (ear) i	2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			or 5. A 4 and Sec Ben Owr		mount of urities eficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) o	r Pric	e			(Instr. 4)	(Instr. 4)
Common Stock			08/16/2010					A	V	364(1)	A	\$1	4.552	8	36,810	D		
Common Stock		11/10/2010					S		695(2)	D	\$15	5.4293		86,115	D			
Common Stock														1	53,556	Ι	Ueunten Trust I	
Common Stock														1	23,900	I	Ueunten Trust II	
Common Stock														3	30,550	I	Ueunten Trust III	
Common Stock															30,550		I	Ueunten Trust IV
		Та	ble	II - Derivat (e.g., pu					,	•	osed of,			•	wned			
1. Title of Derivative Security  1. Title of Derivative Security  2. Conversion or Exercise (Month/Day/Year)  3. Transaction Date Execution Date, if any (Month/Day/Year)			cution Date,	Code	. 5. Number of ode (Instr. Derivative		ative rities ired sed	f 6. Date Exerc Expiration D (Month/Day/		Date	Amou Secur Under Deriva Secur	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)			Expiration Date	Title	or Numb of Share	er				

## Explanation of Responses:

- 1. Acquired through the Company's qualified ESPP program.
- 2. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Rick Neely For: Paul 11/12/2010 <u>Ueunten</u>

\*\* Signature of Reporting Person

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

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).