

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2013-01-11** | Period of Report: **2013-01-10**
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REPORTING OWNER

Ueunten Paul

CIK: **1417123**

Type: **4** | Act: **34** | File No.: **000-51026** | Film No.: **13526245**

Mailing Address
6409 GUADALUPE MINES
ROAD
SAN JOSE CA 95120

ISSUER

MONOLITHIC POWER SYSTEMS INC

CIK: **1280452** | IRS No.: **770466789** | State of Incorp.: **CA** | Fiscal Year End: **1231**
SIC: **3674** Semiconductors & related devices

Mailing Address
79 GREAT OAKS BLVD
SAN JOSE CA 95119

Business Address
79 GREAT OAKS BLVD
SAN JOSE CA 95119
(408) 826-0600

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person Ueunten Paul			2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Sr. V.P. Design Engineering	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 01/10/2013		6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person	
79 GREAT OAKS BLVD			4. If Amendment, Date Original Filed(Month/Day/Year)			
(Street) SAN JOSE, CA 95119						
(City)	(State)	(Zip)				

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	01/10/2013		S	(1)	9,279	D	\$22.9445 (2)	111,189	D	
Common Stock								153,556	I	Ueunten Trust I
Common Stock								113,900	I	Ueunten Trust II
Common Stock								26,000	I	Ueunten Trust III
Common Stock								26,000	I	Ueunten Trust IV

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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
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