Mills William C. III Form 3 April 30, 2010

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

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

(Print or Type Responses)

1. Name and Address of Reporting

Person *

Mills William C. III

(Last)

(First)

(Middle)

Statement

(Month/Day/Year)

04/29/2010

2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol

INTERLEUKIN GENETICS INC [ILI]

4. Relationship of Reporting Person(s) to Issuer

5. If Amendment, Date Original Filed(Month/Day/Year)

C/O INTERLEUKIN GENETICS, INC., 135 BEAVER STREET

(Street)

10% Owner _X_ Director Officer

(Check all applicable)

Other (give title below) (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting

Person

Form filed by More than One Reporting Person

WALTHAM. MAÂ 02452

(City) (State)

1. Title of Security

(Instr. 4)

(Zip)

Table I - Non-Derivative Securities Beneficially Owned

Beneficially Owned

(Instr. 4)

2. Amount of Securities

3. Ownership Form:

4. Nature of Indirect Beneficial

Ownership (Instr. 5)

Direct (D) or Indirect (I) (Instr. 5)

No securities are beneficially owned. 0 D

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Reminder: Report on a separate line for each class of securities beneficially

owned directly or indirectly.

SEC 1473 (7-02)

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 control number.

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)

Expiration Date (Month/Day/Year)

2. Date Exercisable and 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)

4. 5. Ownership Conversion or Exercise Form of

6. Nature of Indirect Beneficial Ownership (Instr. 5)

Price of Derivative Derivative Security:

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Date Expiration Title Exercisable Date

Amount or Security Number of Shares Direct (D) or Indirect (I)

(Instr. 5)

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Mills William C. III

C/O INTERLEUKIN GENETICS, INC. 135 BEAVER STREET

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WALTHAM, MAÂ 02452

Signatures

/s/ Linda Rockett,
Attorney-in-Fact
04/30/2010

**Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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).

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Remarks:

Exhibit 24.1 Power of Attorney

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2