

GOLDMAN SACHS ASSET MANAGEMENT LP  
Form SC 13G  
October 10, 2006

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.   )\*

Illumina, Inc.

-----  
(Name of Issuer)

Common Stock, \$0.01 par value

-----  
(Title of Class of Securities)

452327109

-----  
(CUSIP Number)

September 30, 2006

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(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

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The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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.

SEC 1745 (03-06)

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CUSIP No. 452327109

13G  
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1. Name of Reporting Person  
I.R.S. Identification No. of above Person  
  
Goldman Sachs Asset Management, L.P.

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2. Check the Appropriate Box if a Member of a Group  
  
(a)   
(b)

-----  
3. SEC Use Only

-----  
4. Citizenship or Place of Organization  
  
Delaware

-----  
5. Sole Voting Power  
  
Number of 3,851,932  
Shares

-----  
6. Shared Voting Power  
  
Beneficially 0  
Owned by

-----  
7. Sole Dispositive Power  
  
Each 4,980,485  
Reporting Person

-----  
8. Shared Dispositive Power  
  
With: 0

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9. Aggregate Amount Beneficially Owned by Each Reporting Person

4,980,485

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares

11. Percent of Class Represented by Amount in Row (9)

10.8%

12. Type of Reporting Person

IA

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Item 1(a). Name of Issuer:  
Illumina, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:  
9885 Towne Centre Drive  
San Diego, CA 92121

Item 2(a). Name of Persons Filing:  
Goldman Sachs Asset Management, L.P.

Item 2(b). Address of Principal Business Office or, if none, Residence:  
32 Old Slip  
New York, NY 10005

Item 2(c). Citizenship:  
Delaware

Item 2(d). Title of Class of Securities:  
Common Stock, \$0.01 par value

Item 2(e). CUSIP Number:  
452327109

Item 3. If this statement is filed pursuant to Rules 13d-1(b) or 13d-2(b) or (c), check whether the person filing is a :

(a).  Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o).

(b).  Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c).

(c).  Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c).

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- (d).  Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e).  An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f).  An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g).  A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h).  A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i).  A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j).  Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

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- Item 4.                    Ownership. \*
- (a).            Amount beneficially owned:  
See the response(s) to Item 9 on the attached cover page(s).
  - (b).            Percent of Class:  
See the response(s) to Item 11 on the attached cover page(s).
  - (c).            Number of shares as to which such person has:
    - (i).            Sole power to vote or to direct the vote: See the response(s) to Item 5 on the attached cover page(s).
    - (ii).           Shared power to vote or to direct the vote: See the response(s) to Item 6 on the attached cover page(s).
    - (iii).          Sole power to dispose or to direct the disposition of: See the response(s) to Item 7 on the attached cover page(s).
    - (iv).          Shared power to dispose or to direct the disposition of: See the response(s) to Item 8 on the attached cover page(s).
- Item 5.                    Ownership of Five Percent or Less of a Class.  
Not Applicable
- Item 6.                    Ownership of More than Five Percent on Behalf of Another Person.  
Not Applicable
- Item 7.                    Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.  
Not Applicable

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- Item 8. Identification and Classification of Members of the Group.  
Not Applicable
- Item 9. Notice of Dissolution of Group.  
Not Applicable
- Item 10. Certification.  
By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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\* In accordance with Securities and Exchange Commission ("SEC") Release No. 34-39538 (January 12, 1998), this filing reflects the securities beneficially owned by Goldman Sachs Asset Management, L.P. ("GSAM LP"). GSAM LP, an investment advisor, disclaims beneficial ownership of any securities managed, on GSAM LP's behalf, by third parties.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: October 10, 2006

GOLDMAN SACHS ASSET MANAGEMENT, L.P.

By: /s/ Andrea Louro DeMar

-----  
Name: Andrea Louro DeMar  
Title: Attorney-in-fact

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INDEX TO EXHIBITS

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Exhibit No.    Exhibit  
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99.1            Power of Attorney, dated May 23, 2006, relating to Goldman  
                 Sachs Asset Management, L.P.

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Exhibit (99.1)

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS that GOLDMAN SACHS ASSET MANAGEMENT, L.P. (the "Company") does hereby make, constitute and appoint each of Roger S. Begelman, Yvette Kosic, Andrea Louro DeMar, John M. O'Rourke, Felicia J. Rector, Michael T. Seeley, and Stephen Wong, (and any other employee of The Goldman Sachs Group, Inc. or one of its affiliates designated in writing by one of the attorneys-in-fact), acting individually, its true and lawful attorney, to execute and deliver in its name and on its behalf whether the Company is acting individually or as representative of others, any and all filings required to be made by the Company under the Securities Exchange Act of 1934, (as amended, the "Act"), with respect to securities which may be deemed to be beneficially owned by the Company under the Act, giving and granting unto each said attorney-in-fact power and authority to act in the premises as fully and to all intents and purposes as the Company might or could do if personally present by one of its authorized signatories, hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof.

THIS POWER OF ATTORNEY shall remain in full force and effect until either revoked in writing by the undersigned or until such time as the person or persons to whom power of attorney has been hereby granted cease(s) to be an employee of The Goldman Sachs Group, Inc. or one of its affiliates.

IN WITNESS WHEREOF, the undersigned has duly subscribed these presents as of May 23, 2006.

GOLDMAN SACHS ASSET MANAGEMENT, L.P.

By: /s/ Ellen R. Porges

\_\_\_\_\_  
Name: Ellen R. Porges  
Title: Managing Director

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