#### Michael James Lasinski

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Mike Lasinski is the Executive Director for the Center for Applied Innovation. Mike has managed numerous engagements focused on helping clients extract value from their intellectual property portfolios. These have included both valuation and strategy assignments. In the valuation area, Mike has valued intellectual property and businesses in the context of licensing, sale, purchase (purchase price allocation), corporate spin-outs, joint ventures, litigation (reasonable royalty and economic damage analyses) and taxrelated transactions. He has spoken on the topics of IP valuation, IP licensing and IP tax strategies throughout the U.S. as well as internationally.

In the strategy area, Mike has helped his clients establish intellectual property management subsidiaries, licensing departments and intellectual asset management groups. He has also performed inventories of company IP (including patents, trademarks, software, trade secrets and other IP). In fulfilling such responsibilities, Mike has developed strategies for clients surrounding licensing, sale, donation and abandonment of IP.

Mike is currently the Treasurer and a former co-chair of the Valuation and Taxation Committee of the Licensing Executives Society (LES). He is the current Vice Chair of the Valuation and Taxation Committee of the Intellectual Property Owners Organization. He holds both a B.S.E. in Electrical Engineering (Summa Cum Laude) and a M.B.A. (with High Honors) from The University of Michigan. Prior to the Center for Applied Innovation, Mike worked for InteCap, a subsidiary of Charles River Associates, Coopers & Lybrand (now PriceWaterhouseCoopers) and Ford Motor Company.

# Franklin Pierce Law Center Advanced Licensing Institute

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**Intellectual Property Valuation** 

July 14, 2005

### Agenda

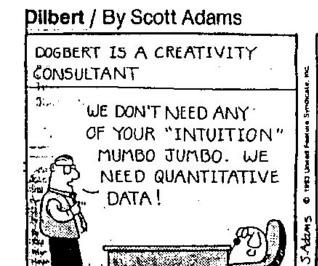
- Introduction
- IP valuation theory: Cost, market, income, other
- Price v. value
- Pre-valuation due diligence
- IP valuation: Income approach example
- Deal structure discussion
- Disclaimer

#### Introduction: An IRS Definition of Fair Market Value

Fair Market Value is defined as the price at which property would change hands between a willing buyer and a willing seller, neither being under any compulsion to buy or to sell, and both having reasonable knowledge of relevant facts (Estate Tax Regs., Sec. 20.2031-1(b); Rev. Rul. 59-60, 1959-1 C.B. 237).



#### **Introduction: Dilbert Understands Valuation**



THE ONLY WAY TO MAKE DECISIONS IS TO PULL NUMBERS OUT OF THE AIR, CALL THEM "ASSUMPTIONS," AND CALCULATE THE NET PRESENT VALUE.



OF COURSE, YOU HAVE TO
USE THE RIGHT DISCOUNT
RATE, OTHERWISE
IT'S MEANINGLESS.

GO
AWAY.

## **Introduction: The Courts Understand Damages**

| Parties                                 | Award         | Date          | Source               | Court               |
|---|---------------|---------------|----------------------|---------------------|
| 1 Polaroid v. Eastman Kodak             | \$873,158,971 | Jan-91        | 17 USPQ2d 1771       | D. Massachusetts    |
| 2 Michelson v. Medtronic Sofarnor Danek | \$529,000,000 | Oct-04        | National Law Journal | W.D. Tennessee      |
| 3 Eolas Technologies v. Microsoft       | \$521,000,000 | Aug-03        | Wall Street Journal  | N.D. Illinois       |
| 4 City of Hope Medical v. Genentech     | \$500,100,000 | Jun-02        | New York Times       | Sup. Ct. California |
| 5 Johnson & Johnson v. Guidant          | \$425,000,000 | Sep-03        | National Law Journal | Arbitration Panel   |
| 6 Johnson & Johnson v. Medtronic        | \$270,000,000 | Sep-03        | National Law Journal | CAFC                |
| 7 Haworth v. Steelcase                  | \$211,499,731 | Dec-96        | 43 USPQ2d 1223       | W.D. Michigan       |
| 8 Hughes Tool v. Smith International    | \$204,810,349 | Mar-86        | 229 USPQ 81          | C.D. California     |
| 9 Procter & Gamble v. Paragon Trade     | \$178,400,000 | Jan-98        | Press Release        | D. Delaware         |
| 10 Exxon Chemical v. Mobil Oil          | \$171,000,000 | <b>Aug-98</b> | Wall Street Journal  | S.D. Texas          |
| 11 Guidant v. Medtronic AVE             | \$166,681,773 | May-02        | Judgement            | Arbitration Panel   |
| 12 Viskase v. American National Can     | \$164,900,000 | Jul-99        | Press Release        | N.D. Illinois       |
| 13 Masimo v. Nellcor                    | \$164,000,000 | Aug-04        | CBS MarketWatch      | C.D. California     |
| 14 Hughes Aircraft v. United States     | \$154,000,000 | Jun-94        | Wall Street Journal  | Federal Claims      |
| 15 Intergraph v. Intel                  | \$150,000,000 | Oct-02        | Wall Street Journal  | E.D. Texas          |
| 16 3M v. Johnson & Johnson              | \$129,000,000 | Dec-92        | Dow Jones Newswire   | CAFC                |
| 17 Fonar v. General Electric            | \$128,705,766 | Feb-97        | Final Judgement      | CAFC                |
| 18 Mobil Oil v. Amoco Chemical          | \$120,000,000 | <b>Aug-98</b> | Press Release        | D. Delaware         |
| 19 Stac Electronics v. Microsoft        | \$120,000,000 | Feb-94        | National Law Journal | C.D. California     |
| 20 Internet Magic v. Netfax             | \$114,000,000 | Feb-02        | National Law Journal | Sup. Ct. California |

Source: IP Litigation: Assessing and Managing The Risks, James R. Sobieraj Brinks, Hofer Intellectual Property Seminar

#### **Introduction: Some Statistics and Information**

- Global licensing revenue is greater than \$150 billion and is growing at 25% to 35% per year
- IBM collected more than \$1.5 billion in royalties last year (and donated 500 patents for open source)
- Microsoft paid more than \$1.4 billion in royalties last year (and is looking to cross license with the 30-40 top technology companies)
- Intellectual Ventures raised more than \$350 million to execute its strategy of acquiring patents for license/assertion

#### **Introduction: Commerce One Auction**

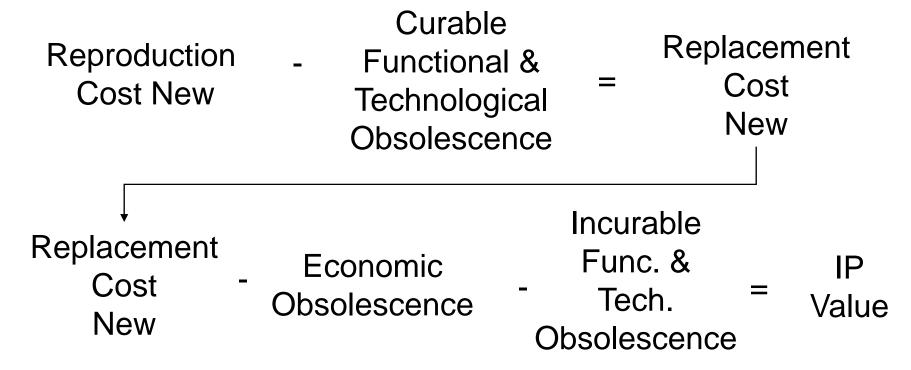
- Commerce One sells patent portfolio out of bankruptcy for \$15.5 million in December 2004 to JGR Acquisition, Inc.
- Patent portfolio consisted of 39 patents/applications and was sold via an auction
- JGR Acquisition, Inc. is later identified as Novell, Inc.; purchase is made for defensive purposes
- The runner-up was Intellectual Ventures which bid \$14.9 million: Intellectual Ventures is considered by many to be a "patent troll"

### **Cost Approach**

- Value: Cost to replace or recreate the asset
- Theory: Licensee is willing to pay as much as it would cost to develop the asset on its own but no more
- What types of costs should be included in a cost approach calculation?
- What are the strengths of this approach?
- What are its weaknesses?

#### **Cost Approach: More detail**

- Key terms to remember:
  - Functional obsolescence
  - Technological obsolescence
  - Economic obsolescence
- Some formula's to remember:



### **Market Approach**

- Value: Arm's-length price paid in comparable transactions
- Theory: Licensee is willing to pay as much as others have paid for the asset but no more
- What constitutes a comparable transaction?
- What are the strengths of this approach?
- What are its weaknesses?

### Market Approach: Analyzing comparables

- Specific rights conveyed in transaction
- Arm's-length transaction
- Special financing terms available
- Economic conditions at time of transaction
- Inclusion of non-IP assets in the transaction
- Functional characteristics of the guideline IP
- Technological characteristics of the guideline IP (Stage of development)
- Economic characteristics of the guideline IP
- Legal characteristics of the guideline IP
- Other factors

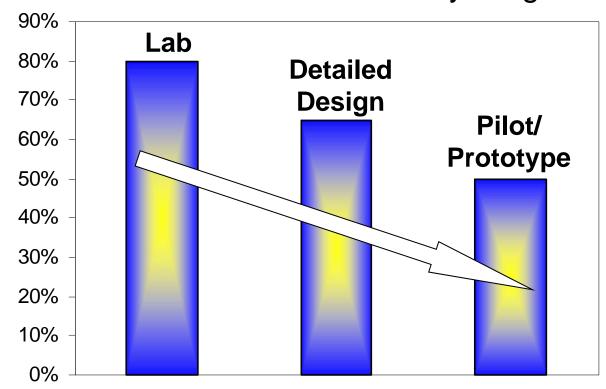
### Market Approach: Sources of comparable transactions

- SEC
- Recombinant Capital (Recap.com)
- Royaltysource.com
- Windhover Information (Windover.com)
- Court records
- Licensing Economics Review (LER)
- Licensing Executives Society publications (les Nouvelles)
- Industry presentations
- Licensing experts

#### Market Approach: Analyzing comparables

#### Discount Increases for Early Stage IP

Percent of commercial royalty rate paid



Technology's stage of Development

Source: A Survey of Licensed Royalty Rates, les Nouvelle, June 1997, Stephen A. Degnan and Corwin Horton

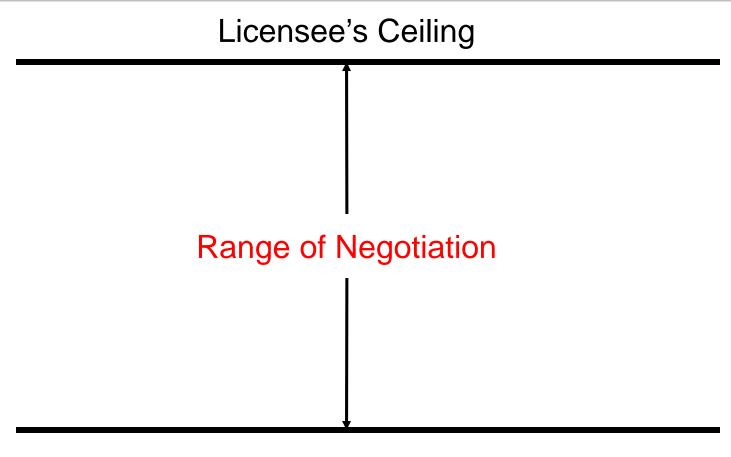
### **Income Approach**

- Value: Present value of the expected cash flows from the subject intellectual property or expected increase in business value due to the intellectual property
- Theory: Licensee is willing to pay some portion of its economic gain from using the intellectual property
- What portion of the cash flows should shared with the licensee?
- What are the strengths of this approach?
- What are its weaknesses?

#### Income Approach: Key calculations

- Calculate incremental revenues due to IP
- Calculate incremental cost savings due to IP
- Calculate relief from hypothetical royalty or lease payments
- Methods that calculate the overall business enterprise or similar economic unit as a result of owning the intellectual property versus one that does not own the intellectual property
- Appropriate discount rate calculation/estimation

#### Price v. Value



Licensor's Floor

#### IP pre-valuation due diligence: legal considerations

- Ownership analysis
- Maintenance records
- Completeness analysis
- Prior-art research
- Infringement/litigation analysis
- Encumbarance analysis (cross-licenses)
- Employee/consultant records
- Freedom-to-operate issues
- Other



Determine existence, ownership and control

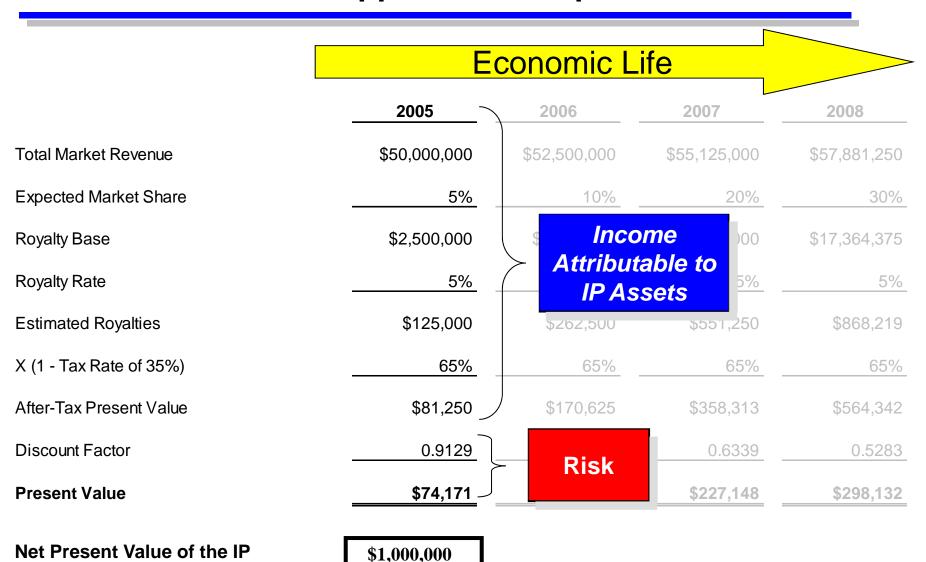
#### IP pre-valuation due diligence: business considerations

- Next best alternative
- Cost to design around
- Benefits of design around
- Comparable transactions
- Gross revenues
- Gross/incremental profit
- Pre-tax profit
- Cost savings
- Incremental revenues
- Accounting for risk
- Other



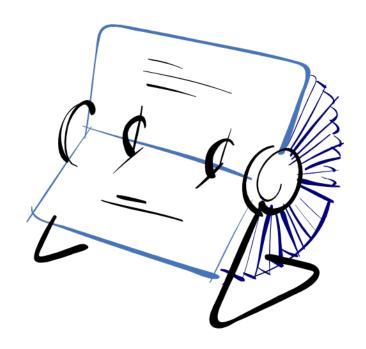
Determine economic, strategic and potential infringement value

#### IP valuation: Income approach example



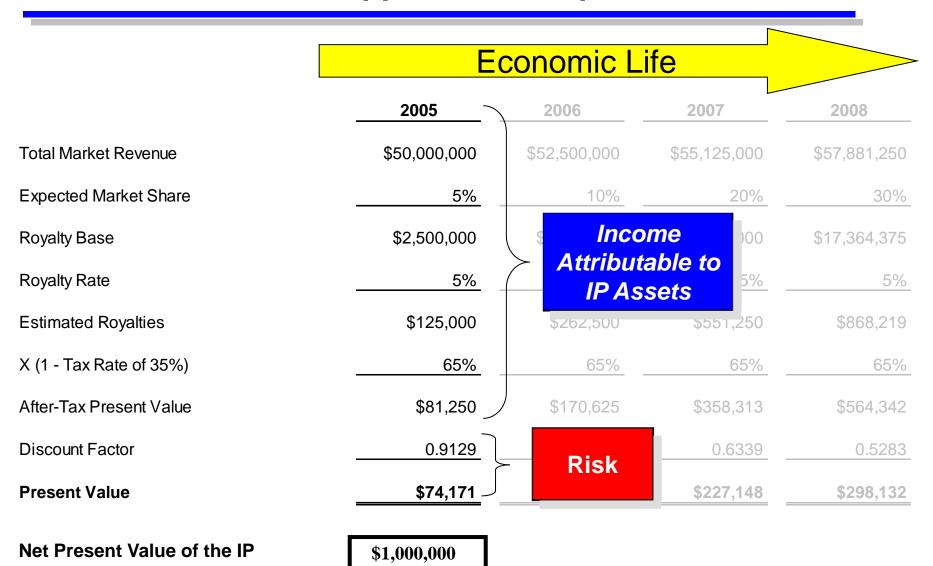
#### IP valuation: Total market revenue & market share

- Market reports
- Business plans
- Market experts
- Primary research
- Government industry reports
- SEC documents/filings
- Historical sales data
- Industry/trade group data
- Other



Determine sales of product that embody the IP as well as collateral sales

### IP valuation: Income approach example



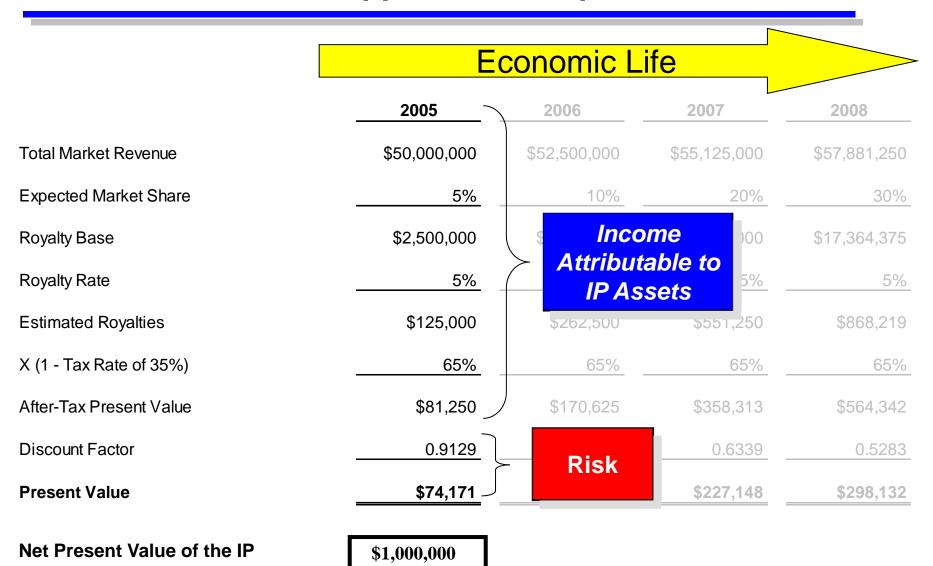
### IP valuation: Royalty rate (value apportionment)

- Rules of thumb (25% rule)
- Industry standards
- Excess earnings
- Cost savings
- Incremental sales
- Price premiums
- Comparable royalty rates
- Other



Determine the appropriate amount of economic gain to share with the IP owner

### IP valuation: Income approach example



#### IP valuation: Discount rate & other factors

- Risk free rate
- Interest rates
- WACC (+ appropriate risk premia)
- Return on equity capital
- Hurdle rates
- VC rates of return
- Capitalization rates
- Probability of success
- Other



Determine the appropriate discount rate based on projections

### IP valuation: Income approach example

