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VALUATION AND LITIGATION BRIEFING

DISCOUNTED CASH FLOW: HANDLE WITH CARE

Valuators and damages experts commonly use the discounted cash flow (DCF) method to determine

business value or calculate lost profits damages. The DCF method is a powerful tool, in part because

it's forward-looking. But because the method incorporates several assumptions based on subjective

judgment, courts tend to scrutinize DCF calculations. Typically, courts demand that valuation experts

explain these assumptions as well as demonstrate they are based on market-derived evidence and align

with the facts of the case.

How DCF works

In using the DCF method, a valuator measures value or lost profits based on a company's expected

future financial performance. Historical performance is relevant only to the extent that it provides

insight into trends and future expectations.

At the same time, the valuator relies on several key assumptions, including cash flow projections,

growth rates and discount rates. Each of these assumptions involves some element of subjective

judgment, so each could be susceptible to manipulation in an effort to reach a desired result.

An appraiser begins by projecting future cash flows over a particular time horizon — sometimes up to

five or 10 years. He or she then discounts those cash flows to present value. The discount rate

reflects the time value of money and also reflects the level of risk associated with an investment in the

business.

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The next step is to calculate a terminal, or residual, value — that is, the company's estimated value at the

end of the projection period. A valuator may use a few different approaches to determine the

terminal value. One common approach is to assume that a company's cash flow will continue to grow at

a constant rate into perpetuity. The valuator then calculates the present value of those cash flows at the

end of the projection period.

Another approach is to use an exit multiple model. A valuator employing this approach determines

terminal value using a multiple — typically derived from transactions involving comparable companies —

of some earnings or cash flow measure. After deriving the terminal value, the expert discounts it to

present value and adds it to the net present value of projected discrete annual cash flows to arrive at a

value for the business.

Key assumptions

It's important to note that the accuracy of the DCF method is only as good as its underlying

assumptions. These include:

Cash flow projections. Valuators examine several factors when projecting cash flows, including the past

financial performance of the business or of similar

businesses, prevailing economic and industry conditions, company specific opportunity and risk factors,

anticipated costs, working capital needs, and expected growth rate.

Often, experts rely on projections that management has prepared in the ordinary course of business.

Indeed, many courts find management projections to be the most reliable predictors of future cash

flows, given management's intimate knowledge of the business, the industry and the market. But courts

are suspicious of, and may reject, management projections prepared outside of the ordinary course of

business, particularly if the likelihood of litigation creates an incentive to manipulate the results.

Discount rate. It's customary for a valuator to determine the discount rate based on the company's

weighted average cost of capital (WACC) or equity cost of capital. WACC incorporates the costs of

both equity and debt to determine a discount rate that reflects the company's overall capital structure.

(See "What's the cost of capital?"). If a company does not have debt, then an equity cost of capital is

used.

Given the level of subjective judgment involved in determining the discount rate, and the significant

impact of even small variations, this is an area ripe for manipulation. Suppose, for example, that a

business has projected cash flows of \$10 million per year over the next 10 years. Using a 10% discount

rate and assuming simple annual compounding, the present value of those cash flows is approximately

\$61.4 million. Reducing the discount rate to 8% increases the present value by \$5.7 million, to \$67.1

million.

Terminal value. Estimates of terminal value may vary substantially depending on which model experts

choose and which inputs (for example, growth rate, multiple, discount rate) they select.

Explain, explain, and explain

Application of the DCF method involves a variety of assumptions and significant judgment. To pass

muster with the courts, experts need to clearly explain the reasoning behind their assumptions and

show how their analyses align with the facts and circumstances of the case.

SIDEBAR: WHAT'S THE COST OF CAPITAL?

The weighted average cost of capital (WACC) is the combined cost of a company's debt and equity

capital. Typically, the debt component is based on the company's actual borrowing costs (adjusted to

reflect the tax benefits of interest deductions). To determine the cost of equity, a valuator usually uses

approaches — such as the capital asset pricing model (CAPM) or the build-up method — that involve

identifying a "risk-free" rate of return and adding market-based and company-specific risk premiums.

A key assumption in calculating WACC is the capital structure - the relative percentages of debt and

equity that form the basis for weighting. When valuing a minority interest, experts usually use the

subject company's actual capital structure. A company's actual capital structure takes into consideration

the fair market value of its debt and equity, and not the historical cost of such items. Thus, a company's

capital structure may be very different than that presented on audited financial statements.

When valuing a controlling interest, experts often use the company's optimal capital structure, under

the theory that a controlling owner has the power to change it. To determine the optimal structure,

experts may look to industry averages, capital structures of comparable companies or lenders' debt-to-

equity criteria.

FINDING THE VALUE OF A NONCOMPETE AGREEMENT

Noncompete agreements can help businesses retain valuable employees, safeguard inside information

and prevent unfair competition. But although they're designed to protect companies, they can also put

them at great risk if they're not properly structured and maintained.

It can be important to determine the value of a noncompete agreement in many situations, including in

a business transaction or sale, or for financial reporting or tax purposes. Professional valuators may use

several methods to value these intangible assets.

The basics

A noncompete agreement (or "covenant not to compete") is a contract between an employee and an

employer. The idea is that the employee agrees not to compete with the employer for a certain time

period and within a specified geographic area.

When valuing a noncompete, an appraiser considers several factors. These include the value of the

overall business, the probable damages a breach might cause, the likelihood of competition and the

enforceability of the noncompete agreement. Damages may be quantified in many different ways, and

would ordinarily consider lost revenues, eliminated variable costs, present value considerations, a duty

to mitigate, replacement costs and other factors.

Different scenarios

Competition from a former employee or seller who didn't sign a noncompete agreement could

potentially force a company out of business. So the value of the entire business represents the absolute

ceiling for the noncompete's value. Most likely, a key employee or seller couldn't steal 100% of a

business's profits. Plus, tangible assets possess some value and could be liquidated if the business failed.

Thus, the next benchmark is estimating how much business the seller or a key employee could take

during the term of the noncompete agreement. Often an appraiser runs two separate discounted cash

flow scenarios. The difference between cash flows with and without a noncompete in place represents a

second ceiling for the noncompete's value. Factors the valuator considers when preparing the different

scenarios include the company's competitive and financial position, business forecasts and trends, and

the individual's skills and customer relationships.

Factors to consider

Next, the appraiser multiplies each differential by the probability that the seller or key employee will

subsequently compete with the business. If the party in question has no incentive, ability or reason

to compete, the noncompete could be worthless. Factors to consider when predicting the threat of

competition from a seller or key employee include the person's:

• Age, health, job satisfaction and financial standing

• Postemployment (or postsale) relocation and employment plans,

Alternative business ventures, and

• Previous competitive experience.

The sufficiency of sales proceeds will also come into play. In addition, the appraiser should ask an

attorney whether the noncompete clause is legally enforceable. Generally, noncompete agreements can

be enforced only if the restrictions are reasonable. For instance, courts have rejected noncompetes that

cover an unreasonably large territory or a long time period.

What's "reasonable" varies from business to business, based on the characteristics of the business, state

statutes and case law, and agreement terms. Employers must update agreements regularly and strictly

enforce all breaches in accordance with the stated terms. If they don't, their noncompetes may become

unenforceable.

Noncompetes help smooth the way

Noncompete agreements can help smooth transitions within companies. They can also help with

transactions after a merger or acquisition closes — but only if buyers and sellers are equally satisfied

with the financial results. An experienced valuator can provide reassurance that the noncompete

agreement is valued appropriately.

LOST PROFITS DAMAGES MUST BE REASONABLE

Warsaw Orthopedic, Inc. v. NuVasive, Inc.

Lost profits proved elusive in this 2015 patent infringement case. At trial, the jury awarded the plaintiff

\$101 million for "lost profit damages (with royalty remainder)" in connection with the defendant's

infringement of two patents.

But on appeal, while the US Court of Appeals for the Federal Circuit upheld the district court's finding of

infringement, it held that the plaintiff wasn't entitled to recover lost profits damages. And, though the

plaintiff was entitled to a reasonable royalty, the verdict failed to indicate the portions of the award

attributable to lost profits and royalties.

Plaintiff's business model

The litigation focused on two patents, one related to oversized spinal implants and the other related to

methods and devices for retracting tissue in minimally invasive spinal surgery. The plaintiff owned both

patents but didn't "practice" the patented technologies. Instead, the plaintiff licensed them to two

related companies: Medtronic Sofamor Danek Deggendorf, GmBH (Deggendorf) and Medtronic Puerto

Rico Operations Co. (MPROC). Those companies manufactured the patented products and sold them to

a third related company, Medtronic Sofamor Danek USA, Inc. (MSD).

The plaintiff accused the defendant of violating its patents, causing the plaintiff and its subsidiaries to

lose sales. The plaintiff sought lost profits based on three patent-related income sources:

1. Sales of fixations (rods and screws used to hold implants and vertebrae in place) to MSD,

2. Royalty payments from Deggendorf and MPROC, and

3. True-up payments pursuant to an intercompany transfer pricing agreement.

The appellate court found that the plaintiff wasn't entitled to recover lost profits based on any of the

three income sources.

Fixation sales

MSD packaged the patented products and fixations together into medical kits, which it sold to hospitals

and surgeons. The plaintiff claimed that the infringement caused MSD to lose medical kit sales, which in

turn caused the plaintiff to lose nearly \$28 million in fixation sales.

The plaintiff argued that fixation sales were convoyed sales — that is, sales of unpatented products that

are closely related to a patented product. Lost profits are available for these products if they're

functionally related to a patented product and not merely packaged together for "convenience or

business advantage." In this case, the plaintiff failed to prove a functional relationship. It didn't, for

example, show that the fixations wouldn't work well in surgeries that didn't involve the patented

products.

Payments from related companies

The plaintiff claimed the infringement caused Deggendorf and MPROC to lose sales, which in turn

reduced the plaintiff's royalty payments from the related companies. Although a patentee isn't entitled

to recover a related company's lost profits, the plaintiff argued that it wasn't seeking to recover

Deggendorf and MPROC's damages. Rather, it was asking for royalty payments it would have received

but for the infringement.

The court rejected this argument. It explained, "We have long recognized that the lost profits must

come from . . . lost sales of a product or service the patentee itself was selling."

True-up payments

Throughout the year, the plaintiff engaged in various transactions with its related companies that didn't

necessarily reflect fair market value. Under the companies' transfer pricing agreement, they made "true-

up" payments at the end of the year to compensate each other for the fair market value of

previously exchanged items. For example, MSD would remit back to the plaintiff 95% of its profits on

sales of patented technologies.

The plaintiff argued that its lost true-up payments should be recoverable as lost profits. The court

disagreed, finding that the plaintiff failed to show what portion of the true-up payments was

attributable to payments for sales of patented products as opposed to payments for unrelated

transactions.

Reasonable royalty

The court's rejection of lost profits didn't mean the plaintiff was precluded from recovery altogether.

The plaintiff was entitled to reasonable royalty damages and the court ordered a new trial to determine

an appropriate amount.

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BENEFIT-OF-THE-BARGAIN VS. OUT-OF-POCKET

Calculating damages in fraudulent misrepresentation cases

In fraudulent misrepresentation cases, courts generally apply the benefit-of-the-bargain measure or the

out-of-pocket measure of damages. The two measures can lead to dramatically different results, so it's

important for attorneys and their damages experts to be on the same page. (Alternative measures may

be available in some types of cases, such as securities fraud or breach of contract.)

What's the difference?

Under the benefit-of-the-bargain measure, the defrauded party recovers the difference between the

value he or she would have received had the defendant's false representation been true and the actual

value received. Under the out-of-pocket measure, on the other hand, the defrauded party recovers the

difference between the value he or she has paid (the purchase price or other consideration,

for example) and the actual value received.

Here's an example that illustrates the difference. Frank purchases a new boiler for his home from Doug

for \$8,000. Doug represents to Frank that the boiler is model X, worth \$12,000, even though he knows

that the boiler is model Y, worth only \$6,000. Under the out-of-pocket measure, Frank's damages are

\$2,000 - the difference between what he paid (\$8,000) and the value he received (\$6,000). But under

the benefit-of-the-bargain measure, Frank's damages are \$6,000 - the difference between the

represented value (\$12,000) and the value he received (\$6,000).

Proponents of the benefit-of-the-bargain measure argue that, unless the fraud perpetrator risks losing

the "profits" from his or her fraud, there's no disincentive. Proponents believe this method makes the

defrauded party whole by restoring his or her prefraud financial position and that the benefit-of-the-

bargain measure gives the defrauded party a windfall.

What do courts accept?

Some courts accept whichever measure does the best job of compensating the defrauded party's

injuries. In Lewis v. Citizens Agency of Madelia Inc., for example, an insurance agency falsely represented

to the plaintiff that she was the beneficiary of her husband's life insurance policy, when in fact he had

purchased an annuity.

The court found that merely refunding the premiums the plaintiff had paid wouldn't make her whole,

since she had forgone other actions, including purchasing additional life insurance, based on the

agency's representations. The court awarded her the life insurance proceeds she expected to receive.

What's the best measure?

The measure of damages in fraud cases has a significant impact on a plaintiff's recovery. Attorneys and

their damages experts need to discuss these issues to formulate an appropriate strategy.

PARTNER PROFILE

Eric A. Kreuter, Ph.D., CPA, CGMA, CFE, CBA

Eric Kreuter is a Partner with Marks Paneth's Financial Advisory Services group. He specializes in

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Eric is a member of several premier industry organizations - including, but not limited to, the American

Institute of Certified Public Accountants, the New York State Society of CPAs, the Institute of

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Eric is a volunteer advisor to the Coalition for Family Justice in Westchester County and Treasurer of

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System, nominated by Gov. Andrew Cuomo and appointed by the President.

In addition to his professional activities, Eric is an avid runner who has completed 75 marathons to date

as he strongly believes in maintaining a high-level of physical and mental fitness.

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Marks Paneth's Financial Advisory Services Group has a reputation for providing litigation, corporate

financial advisory, valuation and dispute analysis, labor and employment, intellectual property, trade

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governmental entities at the federal, state, local and international levels.

Since 2010, readers of New York Law Journal, have ranked Marks Paneth among the top three fraud and

forensic accounting providers. For the past three years, the firm was ranked #2.

In Litigation, a Little Tax Planning Pays Off

The economic impact of a settlement or damages award depends on whether it's taxable to the plaintiff

and deductible by the defendant. A tax-free \$1 million judgment, for example, is substantially more

valuable to a plaintiff than one that comes with a \$400,000 tax bill. And from a defendant's perspective,

the ability to deduct a damages payment takes some of the sting out of a loss. By incorporating tax

strategies into the litigation planning process, you can help your clients improve their chances of a tax-

beneficial outcome.

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How are damages taxed?

Generally, a plaintiff's recovery of damages is taxable unless a specific exception applies. In addition to

income taxes, damages that represent wages, such as back pay in employment discrimination cases, are

also subject to FICA and other employment taxes.

One exception is an award that produces no gain for a plaintiff. This might include an award that

reimburses a plaintiff for nondeductible expenses or for damage to, or destruction of, a capital asset, such

as real property or stock. In the case of a capital asset, damages are tax-free up to the plaintiff's adjusted

basis in the property. To the extent that damages exceed the plaintiff's basis, they're taxable as capital

gains.

Another exception is compensation for injuries or sickness excludable from income under Internal

Revenue Code Section 104. This includes compensatory damages received "on account of personal

physical injuries or physical sickness" under Sec. 104(a)(2). The application of Sec. 104(a)(2) is

straightforward in cases involving bodily injury.

Suppose, for example, that Martha is seriously injured in a car accident caused by the defendant's

negligence, and recovers damages for medical expenses, pain and suffering, lost wages and emotional

distress. Arguably, all of these damages, which flow from the original bodily injury, are tax-free because

they're "on account of personal physical injuries."

Things get more complicated in cases involving nonphysical injuries that result in physical injury or

physical sickness. Employment discrimination cases, for example, often have a significant emotional

distress component that may lead to serious physical illness. But Sec. 104 expressly states that emotional

distress shall not be treated as a physical injury or physical sickness (except for medical expenses).

The IRS and courts generally don't apply this exclusion to damages attributable to emotional

distress symptoms, such as migraines, nausea or insomnia. But some courts have held that damages for

emotional distress are tax-free when it causes more serious physical harm, such as a heart attack or nerve

damage, and the plaintiff's condition is supported by a medical diagnosis and testimony.

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